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MAY 18 1972

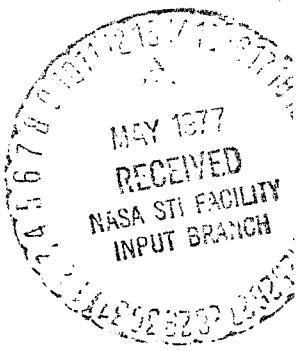
CR 151305

MAY 28, 1970

**IMBLMS
PROGRAMMING
DOCUMENTATION**

CONTRACT NASW - 1631

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BUILDING 45
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Houston, Texas 77058
May 10 1972



(NASA-CR-151305) IMBLMS PROGRAMMING
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Lockheed

MISSILES & SPACE COMPANY

A GROUP DIVISION OF LOCKHEED AIRCRAFT CORPORATION

VOLUME VI
MISCELLANEOUS.

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StepRemarks

1. Unstow and check equipment for Average Skin Temperature measurement.
2. Don Average Skin Temperature vest; attach temperature sensors to specified areas.
3. Verify umbilical not plugged in to Input-Output panel and DC power to DFM is off. Verify console power connected, "Operating Mode" switch "normal" and Console Power Switch "on" and Computer "On". . .
4. Perform Safety Check.
 - Verify DFM DC power off.
 - Connect subject umbilical to I/O Cable and plug into subject and I/O panel.
 - Verify subject is isolated from ground by use of a rubber mat.
 - Verify no power cables, consoles or racks within reach of test subject.
 - Verify no personnel, other than operator, attendant and medical representative within 5 ft. of test subject.
 - Verify that LMSC approved test subject is used.
 - Verify impedance between subject's wet finger and ground.
 - Turn DFM DC power on and repeat Impedance Measurements to verify 150K ohms minimum.
 - Obtain safety approval for test.
5. Insert Average Skin Temperature program tape. Check operation and make initial adjustments. Verify Processor Status 'Stby' display 'On'.
6. Initiate Processor Keyboard pushbuttons (V 01, N 24) for Average Skin Temperature Measurement Procedure. Depress "ENTER" button on Processor Keyboard; verify display of correct 'Program'.
7. Start 4-channel scope according to Start-Up Procedure. Don head set, plug into "Intercom" jack.
8. Enter Astronaut Identification, Mission Day, Mission Time, Organ System (4), Test No. (), and Test Value (0000) at Numerical Data Entry Panel.
9. Log subject, date, test and channel identification and turn on pen recorders.

Impedance Power Off _____
 Impedance Power On _____

APPROVED: _____

AST Ch. 3

StepRemarks

1. Unstow and check equipment for Average Skin Temperature measurement.
2. Don Average Skin Temperature vest; attach temperature sensors to specified areas.
3. Verify umbilical not plugged in to Input-Output panel and DC power to DFM is off. Verify console power connected, "Operating Mode" switch "normal" and Console Power Switch "on" and Computer "On".
4. Perform Safety Check.
 - Verify DFM DC power off.
 - Connect subject umbilical to I/O Cable and plug into subject and I/O panel.
 - Verify subject is isolated from ground by use of a rubber mat.
 - Verify no power cables, consoles or racks within reach of test subject.
 - Verify no personnel, other than operator, attendant and medical representative within 5 ft. of test subject.
 - Verify that LMSC approved test subject is used.
 - Verify impedance between subject's wet finger and ground.
 - Turn DFM DC power on and repeat Impedance Measurements to verify 150K ohms minimum.
 - Obtain safety approval for test.
5. Insert Average Skin Temperature program tape. Check operation and make initial adjustments. Verify Processor Status 'Stby' display 'On'.
6. Initiate Processor Keyboard pushbuttons (V 01, N 24) for Average Skin Temperature Measurement Procedure. Depress "ENTER" button on Processor Keyboard; verify display of correct 'Program'.
7. Start 4-channel scope according to Start-Up Procedure. Don head set, plug into "Intercom" jack.
8. Enter Astronaut Identification, Mission Day, Mission Time, Organ System (4), Test No. (), and Test Value (00000) at Numerical Data Entry Panel.
9. Log subject, date, test and channel identification and turn on pen recorders.

Impedance Power Off _____
Impedance Power On _____

'APPROVED: _____

INTEGRATED MANEUVER
SUBSYSTEM CHECKOUTLOCKHEED MISSILES & SPACE COMPANY
A GROUP DIVISION OF LOCKHEED AIRCRAFT CORPORATIONTEST PROCEDURE
AVERAGE SKIN TEMPERATURE
HARNESS DFM/ATP-2

SHEET 2 OF 2 SHEETS

Step

10. Push both Analog Tape Recorder "RECORD" buttons and activate 'Input' button on Numerical Data Entry Panel. Log subject, date, test and channel identification on intercom and tape setting on pen records. Verify 'Stby' display on Processor Status panel 'off' and 'Exp. Acty' display 'On'.

Initial Tape Footage _____

11. Verify Average Skin Temperature readout on Temperature Meter (DFM) approximately 5 minutes after application of the last thermistor sensor.

Temperature _____

12. Detach the thermistor sensors from the subject, one by one, and in the following order, without disconnecting them from the harness: RT 1 through RT 12.

RT 1	RT 2	RT 3
RT 4	RT 5	RT 6
RT 7	RT 8	RT 9
RT 10	RT 11	RT 12

13. Verify a drop in temperature reading after detaching each thermistor sensor.

14. Turn pen recorder 'Off'. Log subject, date, test complete identification and tape setting on pen records and intercom.

15. Push Analog Tape Recorder "OFF" button and push 'Clear' button on Numerical Data Entry to end program. Verify Processor Status 'Stby' display 'On' and 'Exp Acty' display 'Off'.

Final Tape Footage _____

16. Turn DFM DC power off. Disconnect umbilical from harness. Disconnect umbilical from PBDM I/O panel.

17. Doff vest, detach sensors, and clean and stow all equipment.

18. Turn PBDM and Computer "Off" if no further testing.

MEASUREMENT REQUIREMENTS DATA SHEET

SUB-SYSTEM : Dynamic Physiological Monitor
MEASUREMENT GROUP : Cardiovascular & Metabolism
MEASUREMENT : Average Skin Temperature
MEASUREMENT DESCRIPTION : Measurement of average skin temperature by means of summatting the weighted temperatures from up to twelve different body locations.

1. Input signal characteristics Resistance changes of thermistors in bridge circuit resulting in voltage changes.
2. Electrodes, transducers, vest, Spacelabs Model 401 circular body temperature probes with Yellow Springs No. 44011 thermistors. Average Skin Temperature vest/harness. A probe location diagram will be provided as soon as possible.
3. Signal conditioner(s) Spacelabs Model 606 or equivalent.
4. Range of measurement 80 - 95° F.
5. Frequency of measurement Mostly continuous during exercise on ~~bicycle~~ ergometer, and possible during LBNP exposure.
6. Output signal characteristics
analog/digital Analog DC voltage.
amplitude 0 - 5 volts \pm 1 %.
frequency range 0 - 1 Hz.
accuracy/sensitivity \pm 0.5° F.
7. Calibration
type & technique Factory calibrated.
frequency

8. Data handling

display analog/digital (raw, processed; local, remote; continuous, intermittent)	Analog meter readout on DPM, mostly continuous; digitized on PBDM.
recording analog/digital (raw, processed; continuous, intermittent)	Digitized, intermittent, every 30 seconds.
manual/programmed A or D switching	Signal routing programmed.
manual/verbal data entry	Subject identification and measurement number.
A/D conversion frequency	10 sps minimum.
storage time analog/digital	Digitized till next data dump.
recording/storage quantity per subject	Up to 30 minutes during exercise and LBNP exposure

9. Derived quantities

other measurements required simultaneously for calculations

N/A.

digital computation

N/A.

display analog/digital; location; updating frequency

N/A.

recording analog/digital

N/A.

storage time analog/digital

N/A.

10. Comparison with previous data

N/A.

11. Analog/digital display range & resolution/accuracy

Analog meter on DPM: 80 - 95° F ± 0.5° F.
Digital on PBDM: 80 - 95° F ± 0.5° F.

12. Printout frequency & other requirements

Every 30 seconds.

13. Miscellaneous information, details on referenced items, etc.

Recording sequence: subject and measurement identification, temperature.

For Lab. Verif. record on analog pen recorder; record on FM tape recorder.

A special sub-modules on the vest/harness will contain the weighing potentiometer for the individual temperature channels.

The following weight averaging formula will be used:

$$\begin{aligned} T_{\text{average}} = & (T_{\text{forehead}} \times 0.07) + (T_{\text{right arm}} \times 0.07) + \\ & (T_{\text{left arm}} \times 0.07) + (T_{\text{right hand}} \times 0.025) + \\ & (T_{\text{left hand}} \times 0.025) + (T_{\text{right foot}} \times 0.035) + \\ & (T_{\text{left foot}} \times 0.035) + (T_{\text{right lower leg}} \times 0.065) + \\ & (T_{\text{left lower leg}} \times 0.065) + (T_{\text{right thigh}} \times 0.095) + \\ & (T_{\text{left thigh}} \times 0.095) + (T_{\text{trunk}} \times 0.35). \end{aligned}$$

3/23

* AVERAGE SKIN TEMPERATURE

000137	PGKH	,EQU	,0137
000207	CRGS	,EQU	,0307
000315	DSP1	,EQU	,0315
000223	TWIN	,EQU	,0223
000100	CNE	,EQU	,0100
000225	ANSW	,EQU	,0225
000213	SENC	,EQU	,0213
000235	LGOP	,EQU	,0235
000110	NINE	,EQU	,0110
000113	N2	,EQU	,0113
000115	M4	,EQU	,0115
000117	M6	,EQU	,0117
000220	KYLT	,EQU	,0220
000203	SDEL	,EQU	,0203
000224	PRDR	,EQU	,0224
000306	ASTR	,EQU	,0306
000202	MSTM	,EQU	,0202
000303	MTA	,EQU	,0303
000102	THRE	,EQU	,0102
000222	CDUT	,EQU	,0222
000200	ADRN	,EQU	,0200
000205	TDEL	,EQU	,0205
000212	ENRT	,EQU	,0212
000105	SIX	,EQU	,0105
000103	FOUR	,EQU	,0103
000122	M9	,EQU	,0122
000204	CDEL	,EQU	,0204
000214	CENC	,EQU	,0214
000236	TERM	,EQU	,0236
000101	TWO	,EQU	,0101
000323	BGAD	,EQU	,0323
000322	PRAD	,EQU	,0322
010000		,CRG	,010000
000700	IAOR	,PZGGIN	,0700

* INITILIZE

010000	014303	ASK	,LDA	,DA	
010001	050323		,STA	,DGAD	DIGITAL ID
010002	014300		,LDA	,DB	
010003	050322		,STA	,PRAD	PRINTER ID
010004	014227		,LDA	,D15	
010005	050315		,STA	,DSP1	DIGITAL TABLE ID
010006	010100		,LDA	,ONE	
010007	002000		,JMPM*	,ANSW	INITILIZE A/D
010010	100225				
010011	010241 R		,PZE	,SWIC	
010012	014222		,LDA	,D30	
010013	002000		,JMPM*	,SENC	ENABLE START SWITCH
010014	100213				
010015	010027 R		,PZE	,ASKT	

PAGE 000032

010016	014212	LDA	.731	
010017	002000	JMPM*	SENC	ENABLE STOP SWITCH
010020	100213			
010021	014211 R	PZE	ASK7	
010022	002000	JMPM*	TWIN	READ THUMBWHEELS
010023	100223			
010024	000305	PZE	ASTR	
010025	001000	JMP*	LOOP	
010026	100233			

*

* ENTERED FROM INPUT SWITCH

*

010027	010110	ASKT	LDA	NINE	TURN OFF STBY LIGHT
010030	002000	JMPM*	KYLT		
010031	100220				
010032	014246	LDA	K2		TURN ON EXP-ACTY LIGHT
010033	002000	JMPM*	KYLT		
010034	100220				
010035	002000	JMPM*	SDEL		SET SAMPLING RATE
010036	100203				
010037	040310	PDATA	040310		SET 200 MS DELAY
010040	010065 R	PZE	AVG		
010041	014200	LDA	PRNT		
010042	002000	JMPM*	PRDR		OUTPUT PROGRAM NAME TO PRINTER
010043	100224				
010044	010243 R	PZE	PRNT+1		
010045	010306	LDA	ASTR		ASTRONAUT NUMBER
010046	004510	LASR	8		
010047	054216	STA	0B01		
010050	010307	LDA	ORGs		MISSION DAY
010051	150137	ANA	MSKH		
010052	054215	STA	0B03		
010053	002000	JMPM*	MSTM		READ TIME
010054	100202				
010055	010303	LDA	MTA		
010056	054213	STA	0B05		HOURS = MINUTES
010057	010102	LDA	THRE		OUTPUT ASTRONAUT NUMBER
010060	002000	JMPM*	DOUT		DAY AND TIME
010061	100222				
010062	010265 R	PZE	0B00		
010063	001000	JMP*	ENRT		RETURN THROUGH ENCODER
010064	100212				

*

* ENTERED FROM TIME DELAY

*

010065	010100	Avg	LDA	ONE	
010066	002000	JMPM*	ADRN		GET INPUT
010067	100200				
010070	010237 R	PZE	IB00		
010071	010240 R	PZE	CN30		
010072	002000	JMPM	CLCT		CONVERT TO ENGINEERING UI
010073	010315 R				
010074	010237 R	PZE	IR00		
010075	000001	PDATA	1		

PAGE 000003

010076 000005 ,DATA ,5
010077 001522 ,DATA ,850

* ACCUMULATE FOR 5 SECOND AVERAGE

010100	124177	,ADD	,DB01	
010101	054176	,STA	,DF01	
010102	044155	,INR	,CT25	
010103	034154	,LDX	,CT25	
010104	001040	,JXZ	,**+4	
010105	010110 R			
010106	001000	,JMP*	,TDEL	RETURN THROUGH TIME DELAY
010107	100205			
010110	005001	,TZA	,	
010111	024166	,LDB	,DB01	
010112	174146	,DIV	,D25	AVERAGE 25 VALUES
010113	005021	,TBA	,	
010114	054163	,STA	,DB01	
010115	124156	,ADD	,OB07	
010116	054155	,STA	,OB07	ACCUMULATE FOR 30 SEC AVER
010117	014142	,LDA	,M25	
010120	054137	,STA	,CT25	
010121	044141	,INR	,CT06	
010122	034140	,LDX	,CT06	
010123	001040	,JXZ	,**+4	
010124	010127 R			
010125	001000	,JMP	,DGAT	
010126	010201 R			
010127	005001	,TZA	,	
010130	024143	,LDB	,OB07	
010131	170105	,DIV	,SIX	
010132	005021	,TBA	,	
010133	054140	,STA	,OB07	
010134	124141	,ADD	,OB09	
010135	054140	,STA	,OB09	ACCUMULATE FOR 2 MINUTE A
010136	010117	,LDA	,M6	
010137	054123	,STA	,CT06	
010140	010100	,LDA	,ONE	
010141	002000	,JMPM*	,DOUT	OUTPUT 30 SEC AVERAGE TO
010142	100222			
010143	010273 R	,PZE	,OB06	
010144	005001	,TZA	,	
010145	054125	,STA	,OB07	
010146	044115	,INR	,CT04	
010147	034114	,LDX	,CT04	
010150	001040	,JXZ	,**+4	
010151	010134 R			
010152	001000	,JMP	,DGAT	
010153	010201 R			
010154	005001	,TZA	,	
010155	024120	,LDB	,OB09	
010156	170103	,DIV	,FOUR	
010157	005021	,TBA	,	
010160	054115	,STA	,OB09	

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010161	010115		LDA	M4	
010162	054101		STA	CT04	
010163	010100		LDA	ONE	
010164	002000		JMPM*	DOUT	OUTPUT 2 MIN AVERAGE TO PRI
010165	100222				
010166	010275 R		PZE	OB08	
010167	002000		JMPM*	MSTM	
010170	100202				
010171	010303		LDA	MTA	
010172	054077		STA	OB05	
010173	010100		LDA	ONE	
010174	002000		JMPM*	DOUT	OUTPUT TIME TO PRINTER
010175	100222				
010176	010271 R		PZE	OB04	
010177	005001		TZA	*	
010200	054075		STA	OB09	
010201	010100	DGAT	LDA	ONE	OUTPUT TO DIGITAL DISPLAY
010202	002000		JMPM*	DOUT	OUTPUT 30 SEC AVERAGE
010203	100222				
010204	010277 R		PZE	DB00	
010205	005001		TZA	*	
010206	054071		STA	DB01	
010207	001000		JMPM*	TDEL	RETURN THROUGH TIME DELAY
010210	100205				
*					

* ENTERED FROM STOP SWITCH

010211	014070	ASKZ	LDA	K9	
010212	002000		JMPM*	KYLT	TURN ON STBY LIGHT
010213	100220				
010214	010101		LDA	ATWO	
010215	002000		JMPM*	KYLT	TURN OFF EXP-ACTY LIGHT
010216	100220				
010217	002003		JMPM*	CDEL	CLEAR TIME DELAY
010220	100204				
010221	010065 R		PZE	AVG	
010222	014012		LDA	D30	
010223	002000		JMPM*	CENC	CLEAR ENCODER TABLE
010224	100214				
010225	014010		LDA	D31	
010226	002000		JMPM*	CENC	
010227	100214				
010230	002000		JMPM*	TERM	OUTPUT PRINTER BUFFER AND
010231	100236				
010232	001000		JMP*	ENRT	RETURN THROUGH ENCODER
010233	100212				
010234	000017	D15	DATA	1E	
010235	000006	D30	DATA	6	
010236	000010	D31	DATA	8	
010237	000000	I300	DATA	0	
010240	000002	ON00	DATA	2	
010241	001401	SWIC	DATA	01401	
010242	000015	PRNT	DATA	13	
010243	140726		DATA	AVERAGE SKIN TEMPERATURE	

PAGE 000005

010244	142722				
010245	140707				
010245	142640				
010247	151713				
010250	144716				
010251	120324				
010252	142715				
010253	150305				
010254	151301				
010255	152325				
010256	151305				
010257	120324				
010260	777747	CT25	*DATA	,,-25	
010261	000031	D25	*DATA	,25	
010262	777747	M25	*DATA	,,-25	
010263	777772	CT06	*DATA	,,-6	
010264	777774	CT04	*DATA	,,-4	
010265	054000	CB00	*DATA	,054000	ASTRONAUT NUMBER
010266	000000	CB01	*DATA	,0	
010267	054000	CB02	*DATA	,054000	MISSION DAY
010270	000000	CB03	*DATA	,0	
010271	054000	CB04	*DATA	,054000	TIME
010272	000000	QR05	*DATA	,0	
010273	114415	CB06	*DATA	,0114415	30* DATA + ID
010274	000000	CB07	*DATA	,0	
010275	014415	CB08	*DATA	,0014415	20 DATA
010275	000000	CB09	*DATA	,0	
010277	124415	DB00	*DATA	,0124415	DIGITAL DISPLAY
010300	000000	DB01	*DATA	,0	
010301	100002	K2	*DATA	,0100002	
010302	100011	K9	*DATA	,0100011	
010303	010311 R	DB	*P7E	,TBL1	
010304	010305 R	DA	*P7E	,TBL	
010305	000015	TEL	*DATA	,015	
010306	012400		*DATA	,012400	
010307	017437		*DATA	,017437	
010310	000000		*DATA	,0	
010311	000015	TBL1	*DATA	,015	
010312	141324		*DATA	,BT	
010313	120240				
010314	000000		*DATA	,0	

*

* CONVERSION OF A/D TO ENGINEERING UNIT

010315	000000	CLCT	*P7E	,0
010316	017700 I		*LDA*	,CLCT
010317	054016		*STA	,TEM
010320	017701 I		*LDA*	,TEM
010321	154015		*ANA	,MGA
010322	005012		*TAB	,
010323	005001		*TZA	,
010324	047702 I		*INR	,CLCT
010325	167700 I		*MUL*	,CLCT
010326	047702 I		*INR	,CLCT

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010337	177700	I	*FLV*	,CLCT
010330	047702	I	*INR	,CLCT
010331	005021		*TBA	,
010332	127700	I	*ADD*	,CLCT
010333	047702	I	*INR	,CLCT
010334	001000		*JMP*	,CLCT
010335	110315	R		
010336	000000	TEM	*DATA	,0
010337	001777	MGA	*DATA	,01777
	000000		*END	,

LITERALS

POINTERS

000700	110315
000701	110336
000702	010315

SYMBOLS

1	010337	R	MGA
1	010336	R	TEM
1	C10315	R	CLCT
1	010311	R	TBL1
1	010305	R	TSL
1	010304	R	DA
1	010303	R	DB
1	010302	R	K9
1	010301	R	K2
1	010300	R	DB01
1	010277	R	DB00
1	C10276	R	0809
1	010275	R	0808
1	010274	R	0807
1	C10273	R	0806
1	C10272	R	0805
1	010271	R	0204
1	C10270	R	0803
1	010267	R	0802
1	010266	R	0801
1	C10265	R	0800
1	C10264	R	CT04
1	C10263	R	CT06
1	C10262	R	M25
1	C10261	R	D25
1	010260	R	CT25
1	010242	R	PRNT
1	C10241	R	SW1C
1	C10240	R	CN00
1	C10237	R	I800
1	C10236	R	D31
1	C10235	R	D30
1	C10234	R	D15

<u>Step</u>	<u>Remarks</u>
1.	Unstow tape measure and Exer-Genie with load cell, platform and cable.
2.	Measure circumference of maximally tensed left biceps with tape measure and log.
3.	Install Exer-Genie for first Muscle Strength Measurement; adjust Exer-Genie load to approximate value required; connect power and signal cable to PBM.
4.	Instruct subject to get ready for muscle strength measurement with the Exer-Genie.
5.	Start pen recorders and log subject, date, test and channel identification.
6.	Push both Analog Tape Recorder "RECORD" buttons. Log subject, date, test, and channel identifications on intercom and tape settings on pen records.
7.	Balance load cell amplifier. Enter V 01, N 57, then V 08. Subject ready. Depress "ENTER" button. Exert maximum pull. Experimenter verifies write-out of profile on 4-channel scope, set at slow sweep rate. Repeat with two other subjects.
8.	Turn pen recorders "OFF". Log subject, date, test complete, identification and tape setting on pen records and intercom.
9.	Push Analog Tape Recorder "OFF" button.
10.	Disconnect Exer-Genie assembly from PBM; clean and stow equipment.
11.	"Master Clear" the computer.

Muscle Strength Evaluation Unit

ME/ETP-1
Revision A

Purpose of Revision:

Full tension load position of the UC3 of 500 lb is necessary under certain maximum loading conditions. Changes to ME/ETP-1 are as follows:

4. Pre-load the UC3 load cell using an internal adjustment screw on the load cell accessory set to a 500 lb tension load position.
7. Support assembly so that weights can be attached ranging from 50 lb to 500 lb in 50 lb increments. 5 v output will represent 500 lb.

Calibration Data

Wt.* (lb.)	Output Voltages (Calculated)	Output Voltages (Actual)
50	0.50	0.50
100	1.00	1.00
150	1.50	1.50
200	2.00	2.01
250	2.50	2.51
300	3.00	3.00
350	3.50	3.50
400	4.00	4.00
450	4.50	4.50
500	5.00	4.99

* 100LNS - MUSCLE STRENGTH

3 / 2 3

010050			* CPS	,010000
010050	10028	* PEGIN	,0700	
010051	100	* FOU	,0101	
010052	AMSH	* FOU	,0225	
010053	SWD	* FOU	,0325	
010053	SEEL	* FOU	,0203	
010054	EMPT	* FOU	,0212	
010055	NAME	* FOU	,0110	
010056	KYLT	* FOU	,0220	
010057	ATPM	* FOU	,0220	
010058	ASIG	* FOU	,0136	
010059	SEEL	* FOU	,0205	
010060	OPFL	* FOU	,0204	
010061	DAUT	* FOU	,0222	
010062	TOP1	* FOU	,0315	
010063	TOP2	* FOU	,0303	
010064	ONE	* FOU	,0120	

010065	010121	MSTR	* LPA	* TWO	S* ANSW
010066	002322		* IMPM*	* ANSK	

010067	100227				
010067	010107 P		* PPE	* SWT	
010068	014077		* LPA	* DAP	
010069	050727		* STA	* DGAD	
010070	010100		* LPA	* ONE	
010071	000317		* STA	* TSP1	
010072	010110		* LPA	* NIHE	
010073	002322		* IMPM*	* KYLT	
010074	100220				
010075	014071		* LPA	* SENT	
010076	000307		* STA	* SVPH	
010077	001220		* IMPM*	* ENRT	
010078	100217				

010079	002322	M2	* IMPM*	* SEEL	ENTER FROM START VEND
010080	100227				
010081	010061		* STA	,0140001	
010082	010107 P		* PPE	* MR	
010083	010111		* LPA	* TWO	
010084	010172		* PPAI	,0100000	
010085	010020				
010086	002322		* IMPM*	* KYLT	
010087	100220				
010088	000704		* STA		
010089	010105		* STA	* ICT	
010090	000307		* STA	* MAX	
010091	001220		* IMPM*	* ENRT	

010092	010102	M2	* LPA	* ONE	TIME DELAY ENTRY
010093	002322		* IMPM*	* APPA	

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010057	010057					
010058	010058	R		,777	,INR	
010059	010059	P		,775	,CNO	
010060	010060			,LPA	,INP	
010061	010061			,LNA	,MSKG	
010064	010064			,TAX		CHECK IF MAX
010065	010065			,SUP		,MAX
010066	010066			,IAN		,IC
010067	010067	P				
010068	010068			,JAZ		,MC
010069	010069					
010070	010070			,TXA		
010071	010071			,ATA		,MAX
010074	010074			,ICT		CHECK IF 10 SECND
010075	010075			,LPA		,ICT
010076	010076			,SUP		,HUN
010077	010077			,*47		,*+4
010080	010080	P				
010081	010081			,IMR*	,TDEL	NO
010082	010082					
010083	010083			,LPA		,MAX
010084	010084			,LSPA		,1
010085	010085			,ATA		,OTB+1
010086	010086			,LPA		,ONE
010087	010087			,IMPM*		,ROUT
010088	010088					
010091	010091	P		,775		,OTB
010092	000092			,IMPM*		CLEAR TIME DELAY
010097	010097					
010074	010074	R		,775		,MB
010075	010075			,LPA		,T40
010076	010076			,IMPM*		OFF EXP ACTY
010077	010077					
010100	000100			,IMR*		,TDEL
010111	010111					
*						
010102	010102	P		,775		,OTB
010103	001403	SWT		,DATA		,01402
010104	010104			,DATA		,010073
010105	010105			,775		,MA
010106	000006			,ATA		,0
010107	000007	IOT		,ATA		,0
010110	000000	MAX		,ATA		,0
010111	000000	CNO		,ATA		,2
010112	000112	HIN		,ATA		,107
010117	000001	OTB		,ATA		,1
010114	000114			,ATA		,03025
010115	010115			,ATA		,012437
010116	000000			,ATA		,0
010117	000001	OTB		,ATA		,020001
010118	010118			,ATA		,0
010121	000000			,ATA		,0
010122	010122			,ATA		

LITERATURE

<u>Step</u>	<u>Remarks</u>
1. Unstow and check Clinical ECG equipment.	
2. Prepare electrode sites, attach fixed electrodes, don vest.	
3. Verify umbilical not plugged in to Input-Output panel and DC power to DPM is "Off". Verify console power connected, "Operating Mode" switch "normal" and Console Power Switch "On", and Computer "On".	
4. Perform Safety Check. Verify DPM DC power off. Connect subject umbilical to I/O Cable and plug into subject and I/O panel. Verify subject is isolated from ground by use of a rubber mat. Verify no power cables, consoles or racks within reach of test subject. Verify no personnel, other than operator, attendant, and medical representative within 5 ft. of test subject. Verify that LMSC approved test subject is used. Verify impedance between subject's wet fingers and ground.	Impedance Power Off Impedance Power On
Turn DPM DC power on and repeat Impedance measurements to verify 150K ohms minimum. Obtain safety approval for test.	APPROVED:
5. Insert clinical ECG program tape. Check operation and make initial adjustments. Verify Processor Status 'Stby' display 'On'.	
6. Initiate Processor Keyboard pushbuttons (V 01, N 19) for Clinical ECG Calibration and Measurement Procedure; depress "ENTER" button on Processor Keyboard; verify display of correct 'Program' number, Processor Status and 'Stby' display 'Off' and 'Exp Acty' and 'Calib' both 'On'.	
7. Start 4-channel scope according to Start-Up Procedure. Don head set, plug into "Intercom" jack.	
8. Enter Astronaut Identification, Mission Day, Mission Time, Organ System (2), Test. No. (06) and Test Value (00000) at Numerical Data Entry Panel.	
9. Set ECG Select Switch to '1' position, log subject, date, test and channel identification, and turn 'On' pen recorders.	HR Ch. 1 ECG Ch. 7
10. Re-set Clin. ECG 'Gain Adjustment' control if necessary to obtain adequate waveform and activate 'Cal. Clinical ECG' button intermittently while observing calibration pulses on DPM Calibration scope.	Verify registration of calibration pulses

<u>Step</u>	<u>Remarks</u>
11.	Initial Tape Footage Push both Analog Tape Recorder "RECORD" buttons; Log subject, date, test and channel identification on intercom and tape setting on pen records. Push 'Input' button on Numerical Data Entry. Verify 'Stby' Display on Processor Status Panel is 'Off' and 'Calib' display 'on'.
12.	Activate 'CAL. Clin. ECG'.
13.	Push Analog Tape Recorder 'OFF' button and push 'Clear' button on Numerical Data Entry; verify if Processor Status 'Restart' is 'On' and 'Calib' displays 'Off'.
14.	Subject remains still for recording.
15.	Push both Analog Tape Recorder "RECORD" buttons; Push 'Input' button on Numerical Data Entry. Verify Processor Status 'Restart' display 'Off'. 'Exp Acty' display 'On'. Record for 10 seconds.
16.	Switch ECG Select Switch from Lead I through AVF positions; Push "Input" button (Numerical Data Entry Panel) on each start and push "Clear" button (Numerical Data Entry Panel) on each stop. Maintain each switch position for 20 seconds before proceeding to next position.
17.	Push Analog Tape Recorder "OFF" button and "Clear" button on Numerical Data Entry. Verify Processor Status 'Restart' display and 'Exp Acty' both 'On'.
18.	Attach electrode lead to V_1 position and connect signal cable.
19.	Push both Analog Tape Recorder "RECORD" buttons and 'Input' on Numerical Data Entry. Verify Processor Status 'Restart' display 'off', 'Exp Acty' display 'on'. Record for 10 seconds.
20.	Push Analog Tape Recorder "OFF" button and "Clear" button on Numerical Data Entry. Verify Processor Status 'Restart' display and 'Exp Acty' both 'On'.
21.	Repeat steps 18, 19, and 20 for V_2 , V_3 , V_4 , V_5 , and V_6 . NOTE: Cal light comes on after V_6 is recorded.
22.	Turn DPM DC power off. Disconnect umbilical from harness. Disconnect umbilical from FBM I/O panel.
23.	Turn DPM DC power on.
24.	Push both Analog Tape Recorder "RECORD" buttons; and 'Input' button on Numerical Data Entry. Verify 'Restart' display on Processor Status Panel 'Off' and 'Calib.' Display 'On'.
25.	Activate DPM 'CAL. Clin. ECG'.

Verify Clinical Acceptability of:
 Lead I AVR
 Lead II AVL
 Lead III AVF

Verify Clinical Acceptability of:
 V_1 V_2 V_3
 V_4 V_5 V_6

<u>Step</u>	<u>Remarks</u>
26.	Turn pen recorders off. Log subject, date, test complete identification and tape setting on pen records and intercom.
27.	Push Analog Tape Recorder "OFF" button and 'Clear' button on Numerical Data Entry; verify if Processor Status 'Restart' and 'Calib' displays 'Off' and 'Stby' display 'On'.
28.	Turn DRM DC power off.
29.	Doff vest and remove electrodes. Clean reusable electrodes. Clean and store all equipment.
30.	Turn PBEM and Computer "OFF" if no further testing.

MEASUREMENT REQUIREMENTS DATA SHEET

SUB-SYSTEM : Dynamic Physiological Monitor

MEASUREMENT GROUP : Cardiovascular

MEASUREMENT : Clinical Electrocardiogram

MEASUREMENT DESCRIPTION : Obtain the twelve clinical ECG leads in sequential order properly identified as I, II, III AVR, AVL, AVF, V1, V2, V3, V4, V5, and V6.

1. Input signal characteristics Bi-phasic, repetitive waveform, 0 - 3 millivolts.

2. Electrodes, transducers, vest, harness Four reusable or disposable extremity electrodes one moveable and reusable precordial suction cup electrode. See location diagram III-D-16A. Require a separate vest/harness without S/Cs.

3. Signal conditioner(s) One ECG S/C, circuit board configuration, located within the DPM. Multi-deck, 9-position selector switch required.

4. Range of measurement N/A.

5. Frequency of measurement Approx. once per week.

6. Output signal characteristics

analog/digital	Analog waveform.
amplitude	0 - 5 volts.
frequency range	0.1 - 100 Hz.
accuracy/sensitivity	± 5 % of true waveform.

7. Calibration

type & technique	1 millivolt squarewave pulses; manual pushbutton DPM.
frequency	At beginning and end of each run.

8. Data handling

display analog/digital (raw, processed; local, remote; continuous, intermittent)	Raw, analog, cont. on DPM; Raw, analog, cont. on Display Monitor.
recording analog/digital (raw, processed; continuous, intermittent)	Raw, digitized, 10 seconds per lead.
manual/programmed A or D switching	Signal routing and lead identification programme lead switching manual at DPM.
manual/verbal data entry	Subject identification and measurement number.
A/D conversion frequency	400 sps.
storage time analog/digital	Digitized till next data dump.
recording/storage quantity per subject	2 - 3 minutes total for all leads.

9. Derived quantities

other measurements required simultaneously for calculations	N/A. Instantaneous heart rate will be derived in and will be displayed on analog meter on front panel.
digital computation	Average heart rate after each digitized waveform
display analog/digital; location; updating frequency	Instantaneous heart rate - analog meter on DPM; Average heart rate during recording of each lead on Processor Readout. No updating required.
recording analog/digital	Average heart rate at end of each run.
storage time analog/digital	Digitized till next data dump.

10. Comparison with previous data

N/A.

11. Analog/digital display range & resolution/accuracy

Analog: 50 - 200 bpm, 5 bpm resolution.
Digital: 50 - 200 bpm, \pm 2 bpm.

12. Printout frequency & other requirements

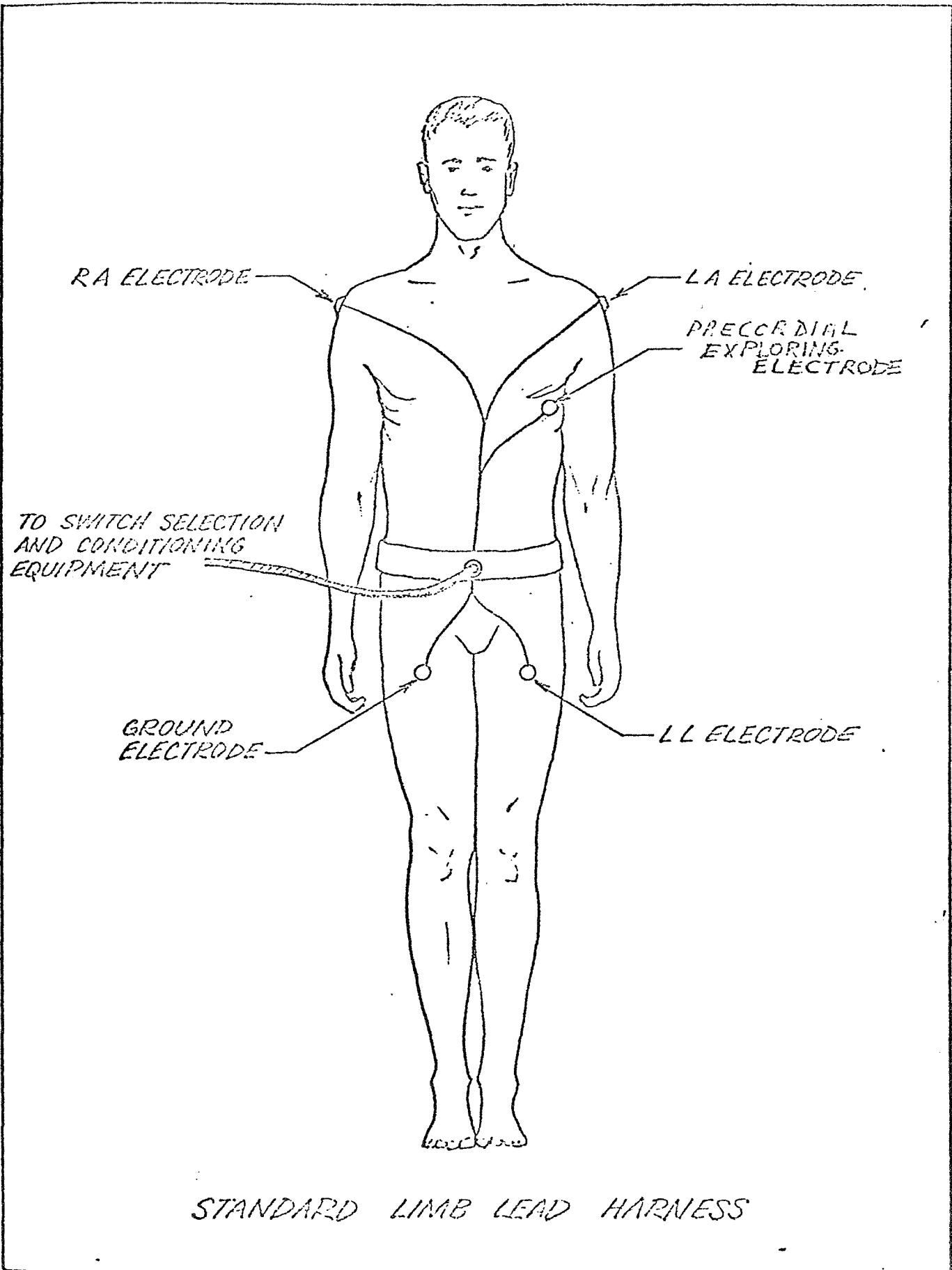
Average heart rate at end of each recorded lead

13. Miscellaneous information, details on referenced items, etc.

Recording sequence: subject, measurement, and lead ident., digitized waveform, calibration, heart rate.

For Lab. Verif. record analog on pen recorder, and record on FM tape recorder.

Calibration unit inside DPM with pushbutton on front panel.



A/2

* ITEL'S CLINICAL FDS PROGRAM

000213	SET C	SETU	s 1213
000214	SENIC	SETU	s 1214
000203	SYLT	SETU	s 1203
000100	CINE	SETU	s 1100
000106	SYI	SETU	s 1106
000111	TPI	SETU	s 1111
000116	AT	SETU	s 1116
000202	SCA	SETU	s 1202
000101	TPI	SETU	s 1101
000102	SYT	SETU	s 1102
000203	ANAL	SETU	s 1203
000207	LCR	SETU	s 1207
000110	NIVE	SETU	s 1110
000205	SPCL	SETU	s 1205
000212	EMPT	SETU	s 1212
000200	ADRN	SETU	s 1200
000205	TPCL	SETU	s 1205
000136	MSIG	SETU	s 1136
000104	FIVE	SETU	s 1104
000222	ROUT	SETU	s 1222
000204	SPCL	SETU	s 1204
000115	TPCI	SETU	s 1115
010000		SETG	s 010000
010000	1407	SETG*	s 1700
010000	005000	SETG	*
010001	014247	ELPA	s 0771
010002	002000	IMPRI*	SET START-STOP
010003	100217		
010004	010025 R	SETF	s CA
010005	014242	ELPA	s 0771
010006	002000	IMPRI*	SET STOP
010007	100213		
010010	010170 R	SETF	s CK
010011	014265	ELPA	s 0771
010012	050023	STA	s 0000
010013	010107	ELPA	s 0771
010014	050015	STA	s 0001
010015	010102	ELPA	s 0002
010016	002000	IMPRI*	ENABLE DISPLAY 1
010017	100203		
010020	010244 R	SETF	s S/7
010021	005001	SET	*
010022	050017	STA	s S/7
010023	001022	IMPRI*	SET S/7
010024	100212		

* START SWITCH ENTRY

*

010025	044214	CA	s 142	s 007	SET CAL. IND.
010026	014217	ELPA	s 007		
010027	140107	SET	s 077		
010031	001010	IMPRI*	s 007		

010071	010077 R					
010072	010084	CF	JMP	SET		
010073	001041		JMP	SET		
010074	010077 R					
010075	001050		JMP	SET		
010076	010042 R					
010077	054273	CD	JMP	SET		
010078	001060		JMP	SET		
010079	010047 R					
010080	044670	CD	JMP	SET		
010081	010177		JMP	SET		
010082	001012		JMP	SET		
010083	010041					
010084	010046 R					
010085	010077 R					
010086	010126		JMP	SET		
010087	010057 R					
010088	001030		JMP	SET		
010089	002000		JMP*	SET		
010090	100220					
010091	001021		JMP	SET		
010092	010072 R					
010093	010171	CD	JMP	SET		
010094	000000		JMP	SET		
010095	001051		JMP	SET		
010096	100000					
010097	002000		JMP*	SET		
010098	100222					
010099	010119		JMP	SET		
010100	000000		JMP*	SET		
010101	100220					
010102	010057		JMP	SET		
010103	001030		JMP*	SET		
010104	010121		JMP*	SET		
010105	100220					
010106	002000	CD	JMP*	SET		
010107	100227					
010108	040002		JMP	SET		
010109	010167 R		JMP	SET		
010110	010144		JMP	SET		
010111	001010		JMP	SET		
010112	010105 R					
010113	002000		JMP*	SET		
010114	100207					
010115	001000		JMP*	SET		
010116	100203					
010117	010162		JMP	SET		
010118	010165 R		JMP	SET		
010119	001020	CF	JMP*	SET		
010120	100212					

* = 2-HS DELAY ENTRY

010121	010121	CD	JMP	SET		A/D INPUT
010122	000000		JMP*	SET		
010123	100212		JMP*	SET		
010124	010120		JMP	SET		
010125	001020	CF	JMP*	SET		

017114	014174					
017115	0001111					
017116	1000000					
017117	014174					
017118	120107					
017119	056107					
017120	014174					
017121	150107					
017122	030700					
017123	014174					
017124	014174					
017125	140107					
017126	0001010					
017127	014174					
017128	014174					
017129	014174					
017130	014174					
017131	100200					
017132	020116					
017133	0001011					
017134	0001010					
017135	0001011					
017136	0001010					
017137	010204					
017138	000102					
017139	001022					
017140	010107					
017141	001022					
017142	010107					
017143	001022					
017144	010107	210136				
017145	0001012					
017146	0001011					
017147	174116					
017148	0001014					
017149	0001021					
017150	0001042					
017151	0001014					
017152	0001014					
017153	0001014					
017154	0001014					
017155	0001003					
017156	100202					
017157	010207					
017158	0001001					
017159	0001022					
017160	054066					
017161	001021					
017162	100205					
*						
*	5 SEC. DELAY ENTRY					
*						
017163	044067	CH	*TAX	*TAX		SET DISPLAY INDICATION
017164	0001020		*TAX*	*TAX		
017165	100207					
*						
*	STOP SWITCH ENTRY					
*						
017170	0001021	OK	*TAX*	*TAX		TURN OFF TIME DELAYS
017171	100206					
017172	010107					
017173	0101067					

010204	010101					
010205	010102					
010206	000103					
010207	100104					
010208	010105	R	*LDA	*OH		
010209	010106		*LDA	*OH		TIDU OFF LIDITS
010209	000107		*JMP**	*KYLT		CALIBRATE
010209	100108					
010209	010109		*LDA	*TxD		
010209	000109		*JMP**	*KYLT		EXP. ARTY.
010209	100109					
010209	010110		*LDA	*SCT		
010210	000110		*LDA	*T11		
010211	000111		*LDA	*CY		
010212	010201	T				
010213	010202		*LDA	*THDE		ON RESTART
010214	000203		*PAI	*D100007		
010215	100203					
010216	000200		*JMP**	*KYLT		
010217	100200					
010217	000203		*JMP*	*KART		
010218	100202					
010219	010111	C,	*LDA	*N118		ON STANBY
010220	000112		*PAI	*D100007		
010221	100100					
010222	010112		*LDA	*N118		
010223	000113		*PAI	*D100007		
010224	100200					
010225	000200		*JMP**	*KYLT		
010226	100200					
010227	010113		*LDA	*THDE		
010228	000200		*JMP**	*KYLT		
010229	100200					
010230	010114		*LDA	*T32		CLEAR ENCODERS
010231	000200		*JMP**	*CENIC		
010232	100204					
010233	010112		*LDA	*T32		
010234	100214					
010235	010112		*LDA	*T32		
010236	000200		*JMP**	*CENIC		
010237	100214					
010238	000102		*JMP*	*ENRT		
010239	100212					

*

* ECG CONSTANTS AND STORAGE

*

010242	000201	SCT	*DATA	*2	START COUNTER
010243	000200	C117	*DATA	*2	REGAL.
010244	000401	C1-T	*DATA	*2421	ANALOG SWITCH TABLE
010245	000402		*DATA	23403	
010245	000402		*DATA	010007	
010247	000206	D70	*DATA	*2	ANALOG SETUP
010250	000402	D71	*DATA	*2	ANALOG SETUP
010251	000200	C147	*DATA	*2	DISPLAY INDICATOR
010252	000200	L7F	*DATA	*2	INPUT DIFFER
010253	000203		*DATA	*2	
010254	000203	LCT	*DATA	*2	MIXER POINT
010255	000203	C16	*DATA	*2	A/D CHANNELS
010256	000203		*DATA	*2	

0	010267	R	101	DATA	,15	DATA	101
	010268	R	102	DATA	,16	DATA	102
	010269	R	103	DATA	,17	DATA	103
	010270	R	104	DATA	,18	DATA	104
	010271	R	105	DATA	,19	DATA	105
	010272	R	106	DATA	,20	DATA	106
	010273	R	107	DATA	,21	DATA	107
	010274	R	108	DATA	,22	DATA	108
	010275	R	109	DATA	,23	DATA	109
	010276	R	110	DATA	,24	DATA	110
	010277	R	111	DATA	,25	DATA	111
	010278	R	112	DATA	,	DATA	112

LITERALS

PUNCTUATORS

403700 110265

SYMBOLS

1	010277	R	101
1	010276	R	101
1	010275	R	102
1	010274	R	102
1	010267	R	0TDL
1	010265	R	025
1	010265	R	TA
1	010264	R	IAI
1	010267	R	ISV
1	010265	R	CNL
1	010264	R	ICL
1	010262	R	IEF
1	010261	R	IIED
1	010260	R	IIJ1
1	010267	R	IIJ0
1	010244	R	SAT
1	010243	R	CINE
1	010242	R	SCT
1	010222	R	CM
1	010170	R	CK
1	010165	R	CH
1	010107	R	CG
1	010110	R	CE
1	010072	R	CE
1	010057	R	CD
1	010042	R	CC
1	010077	R	CF
12	010025	R	CA
13	010030	R	CECC
14	000317	R	CG+1
15	000294	R	CGCL

READY TO LAUNCHED
READY FOR CHECKOUT

LOCKHEED MISSILES & SPACE COMPANY
A SUBSIDIARY OF LOCKHEED AIRCRAFT CORPORATION

NEUROLOGICAL
DPM/ATP - 4

SHEET 1 OF 3 SHEETS

Remarks

1. Unstow and check equipment for Neurological measurements.
2. Prepare electrode sites, attach electrodes, and electrode holding device.
3. Verify umbilical not plugged in to Input-Output panel and DC power to DPM is off. Verify console power connected, "Operating Mode" switch "Normal" and Console Power Switch and Computer "ON".
4. Perform Safety Check
 - Verify DPM DC power off.
 - Connect subject umbilical to I/O Cable and plug into subject and I/O panel.
 - Verify subject is isolated from ground by use of a rubber mat.
 - Verify no power cables, consoles or racks within reach of test subject.
 - Verify no personnel, other than operator, attendant and medical representative within 5 ft. of test subject.
 - Verify that LMSC approved test subject is used.
 - Verify impedance between subject's wet fingers and ground.
5. Turn DPM DC power on and repeat Impedance Measurements to verify 150K ohms minimum.
6. Obtain safety approval for test.
7. Disconnect subject cable from S/C Box.
8. Insert Neurological Program tape; check operation and make initial adjustments. Verify Processor Status 'Standby' display "ON".
9. Initiate Processor Keyboard pushbuttons (V 01, II 17) for Neurological Calibration and Measurement Procedure; depress "ENTER" button on Processor Keyboard; verify display of correct 'Program' number; Processor Status 'Stby' display 'Off' and 'Exp Acty 'On'.
10. Start 4-channel scope according to Start-up Procedure. Don head set, plug into "Intercom" jack.
11. Enter Astronaut Identification, Mission Day, Mission Time, Organ System (1), Test No. (07) and Test Value (00000) at Numerical Data Entry Panel.
12. Set ECG Select Switch to 'Sensor' and set Sensor Select to 'ECG 1'. Log subject, date, test and channel identification. Turn pen recorders 'On'.

Impedance Power Off _____
Impedance Power On _____

APPROVED: _____

Ch. 5-8	7-12	13-16
EMG	EEG ₂	EMG
--	--	ECG
ECG _H	EEG ₁	EEG ₁
EEG _I	EEG _V	EEG ₂

<u>Step</u>	<u>Remarks</u>
11.	Activate 'CAL Neuro' button, observe calibration pulses on DPM Calibration Scope and 4-channel oscilloscope, while slowly switching Sensor Select from 'EEG 1' through 'EEG 2' positions. Reset appropriate 'Gain Adjustment' Controls for each channel (if necessary). Return Sensor Select to 'EEG 1' position. Verify Calibration Pulse: EEG ₁ _____ EEG ₂ _____ EOG _V _____ EOG _H _____ EMG _____
12.	Push both Analog Tape Recorder "RECORD" buttons and activate 'Input' button on Numerical Data Entry. Log subject, date, test and channel identification on intercom and tape setting on pen records. Verify 'Stby' display on Processor Status panel 'Off' and 'Calib.' Display 'On'. and 'Exp Acty' is 'On'. Initial tape footage _____
13.	Activate 'CAL. Neuro' button on DPM.
14.	Plug subject cable into Neurological S/C assembly box; wait 10 seconds.
15.	Verify adequacy of clinical tracings on four-channel scopes and pen recorders. If gain adjustments are necessary at the DPM, make adjustments to obtain adequate tracings, then unplug subject cable to Neurology Signal Conditioner Assembly Box and repeat steps 13 and 14. Verify Calibration Pulse: EEG ₁ _____ EEG ₂ _____ EOG _V _____ EOG _H _____ EMG _____
16.	Activate 'CAL Neuro' button on DRM.
17.	Push Analog Tape Recorder "OFF" button and push 'Clear' button on Numerical Data Entry Panel; verify if Processor Status 'Stby' display 'On' and 'Calib' display and 'Exp Acty' are both 'Off'. Verify Acceptable Tracing: EEG ₁ _____ EEG ₂ _____ EOG _V _____ EOG _H _____ EMG _____
18.	Insert (V 01, W 18) on Processor Keyboard for Neurological Measurement recording; depress "ENTER" button on Processor Keyboard; verify if Processor Status 'Exp Acty' display is 'on' and 'Calib' display is 'Off'.
19.	Push both Analog Tape Recorder "RECORD" buttons; activate 'Input' button on Numerical Data Entry panel; verify Processor Status Panel 'Stby' display 'off' and 'Exp Acty' display 'On'.
20.	Instruct subject to perform each of the following maneuvers as indicated: close eyes and relax (10 secs.); open eyes and relax (10 secs.); blink eyes slowly (5 x); frown (5 x); raise eyebrows (5 x); grit teeth (5 x); move eyes from center to left, right, up and down + return to center position after each movement, and hold for three seconds before making next movement.(3 x); turn

<u>Step</u>	<u>Remarks</u>
	head from center to left and right - return to center position after each movement and hold for three seconds before making next movement (3 x); close eyes and move rapidly to right and left and back without stopping (5 x).
21.	Instruct subject move to gurney and to prepare for sleep. Verify subject asleep
22.	Periodically activate 'Cal Neuro' button on DPM. Verify clinical validity of tracings for sleep analysis
23.	Turn pen recorders 'Off'. Log subject, date, test complete identification and tape setting on pen records and intercom. Final Tape Footage
24.	Push Analog Tape Recorder "OFF" button; push 'Clear' button on Numerical Data Entry to end program. Verify Processor Status 'Stby' display 'On' and 'Exp Acty' 'Off'.
25.	Turn DPM DC power off. Disconnect umbilical from harness. Disconnect umbilical from PBEM I/O panel.
26.	Doff vest and remove electrodes. Clean reusable electrodes. Store all equipment.
27.	Turn PBEM and Computer "OFF" if no further testing.

MEASUREMENT REQUIREMENTS DATA SHEET

SUB-SYSTEM : Dynamic Physiological Monitor

MEASUREMENT GROUP : Neurological

MEASUREMENT : Electroencephalogram (EEG)

MEASUREMENT DESCRIPTION : Obtain two channels of EEG for sleep, level of consciousness or clinical monitoring, using any two of the following electrode combinations: F3 - T3, F3 - C3, P3 - O1, F4 - C4, C4 - O2.

1. Input signal characteristics Bi-phasic, random waveform, 0 - 200 microvolts peak-to-peak.

2. Electrodes, transducers, vest, harness Four active and one common ground Ag - AgCl reusable electrodes with adjustable holding straps, or Adey-Kado electrodes plus bathing cap holding dev. See location diagram III-D-5A

3. Signal conditioner(s) Two EEG S/C; circuit board configuration.

4. Range of measurement N/A

5. Frequency of measurement Approx. once per 1 - 2 weeks.

6. Output signal characteristics

analog/digital	Analog waveform
amplitude	0 - 5 volts
frequency range	0.2 - 100 Hz
accuracy/sensitivity	$\pm 5\%$ of true waveform

7. Calibration

type & technique	100 microvolts square wave pulse; manual.
frequency	At beginning and end of each run, and approximately once per hour during run.

8. Data handling

display analog/digital (raw, processed; local, remote; continuous, intermittent)	Raw, analog, continuous on DMM; raw, analog, continuous on Display Monitor.
recording analog/digital (raw, processed; continuous, intermittent)	Raw, digitized, continuous.
manual/programmed A or D switching	Signal routing and lead identification programmed
manual/verbal data entry	Subject identification and measurement number.
A/D conversion frequency	2500 bps.
storage time analog/digital	Digitized till next data dump.
recording/storage quantity per subject	10 hours per subject. See # 13.

9. Derived quantities

other measurements required simultaneously for calculations	N/A
digital computation	N/A
display analog/digital; location; updating frequency	N/A
recording analog/digital	N/A
storage time analog/digital	N/A

10. Comparison with previous data

11. Analog/digital display range & resolution/accuracy	N/A
12. Printout frequency & other requirements	N/A

13. Miscellaneous information, details on referenced items, etc.

Recording sequence: subject, measurement, and lead identification; calibration pulses, digitized waveform, calibration pulses.

For Lab. Verif. record analog on pen recorder.

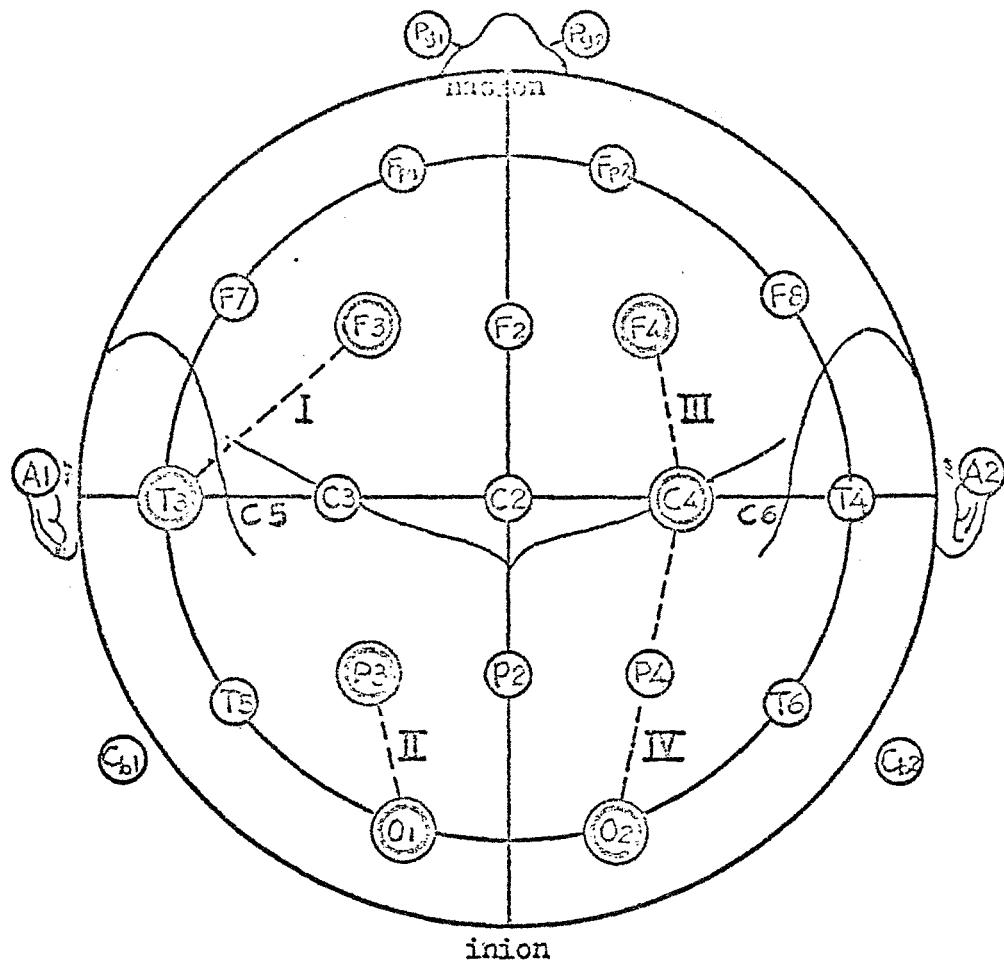
For sleep analysis the S/Cs are to be mounted in separate box, together with those for the ENG and EMG S/Cs, near head-end of bed or couch.

EEG, ENG, and EMG are to be recorded simultaneously when used for sleep analysis.

The designation of the EEG electrode positions is in accordance with the Ten-Twenty-Electrode System of the International Federation (of Electro-Encephalographers).

Parallel S/C input terminals are required on the box for external calibration by means of the portable Calibration Unit.

THE TEN-TWENTY ELECTRODE SYSTEM OF THE INTERNATIONAL FEDERATION



A single plane projection of the head, showing all standard positions for EEG electrodes and the location of the Rolandic and Sylvian fissures. The outer circle was drawn at the level of the nasion and inion. The inner circle represents the temporal line of electrodes. The doubly circled electrodes are those most likely to be used for EEG sleep analysis. Position C_3 may be used instead of T_3 .

MEASUREMENT REQUIREMENTS DATA SHEET

SUB-SYSTEM : Dynamic Physiological Monitor
 MEASUREMENT GROUP : Neurological
 MEASUREMENT : Electro-oculogram (EOG)
 MEASUREMENT DESCRIPTION : Obtain horizontal and vertical EOG during EEG sleep analysis for rapid eye movement (REM) recording.

1. Input signal characteristics Bi-phasic, random waveform, 0 - 100 microvolts peak-to-peak.

2. Electrodes, transducers, vest, harness Four active and one common ground Ag - AgCl reusable electrodes. A light-weight face mask may be required to prevent dislodging the electrodes. Electrodes are placed at outer canthi of both eyes and above and below the left eye; ground electrode on forehead.

3. Signal conditioner(s) Two EOG S/C; circuit board configuration.

4. Range of measurement N/A

5. Frequency of measurement Approx. once per 1 - 2 weeks.

6. Output signal characteristics

analog/digital Analog waveform. See # 13.

amplitude 0 - 5 volts

frequency range 0.2 - 100 Hz

accuracy/sensitivity No waveform analysis required. See # 13.

7. Calibration

type & technique 100 microvolt square wave pulse; manual.

frequency At beginning and end of each run, and approx. one per hour during run.

8. Data handling

display analog/digital (raw, processed; local, remote; continuous, intermittent)	Raw, analog, continuous on EHM; raw, analog, continuous on Display Monitor.
recording analog/digital (raw, processed; continuous, intermittent)	Raw, digitized, continuous.
manual/programmed A or D switching	Signal routing and lead identification programmed.
manual/verbal data entry	Subject identification and measurement number.
A/D conversion frequency	2500 bps.
storage time analog/digital	Digitized, till next data dump.
recording/storage quantity per subject	10 hours per subject. See # 13.

9. Derived quantities

other measurements required simultaneously for calculations	N/A
digital computation	N/A
display analog/digital; location; updating frequency	N/A
recording analog/digital	N/A
storage time analog/digital	N/A

10. Comparison with previous data

11. Analog/digital display range & resolution/accuracy N/A

12. Printout frequency & other requirements N/A

13. Miscellaneous information, details on referenced items, etc.

Recording sequence: same as for EEG.

For Lab. Verif. record analog on pen recorder.

For sleep analysis S/Cs are to be mounted in separate box, together with those for the EEG and the nuchal EMG, near head-end of bed or couch.

ENG, EEG, and EMG are to be recorded simultaneously.

Parallel S/C input terminals are required on the box for external calibration by means of the portable Calibration Unit.

MEASUREMENT REQUIREMENTS DATA SHEET

SUB-SYSTEM	: Dynamic Physiological Monitor
MEASUREMENT GROUP	: Neurological
MEASUREMENT	: Electromyogram (Nuchal EMG)
MEASUREMENT DESCRIPTION	: Obtain one channel of neck muscle EMG from Sternocleidomastoides or Splenius capitis during EEG sleep analysis recording of gross body movement and restlessness during sleep.
1. Input signal characteristics	Bi-phasic, random waveform, 0 - 1000 microvolts. peak-to-peak.
2. Electrodes, transducers, vest, harness	Two active and one ground AG - AgCl re-useable or disposable electrodes. See location diagram III-D-1.
3. Signal conditioner(s)	One EMG S/C; circuit board configuration.
4. Range of measurement	N/A
5. Frequency of measurement	Approx. once per 1 - 2 weeks.
6. Output signal characteristics	
analog/digital	Analog waveform. See # 13.
amplitude	0 - 5 volts
frequency range	0.2 - 100 Hz
accuracy/sensitivity	No waveform analysis required. See # 13.
7. Calibration	
type & technique	1 millivolt square wave pulse, manual.
frequency	At beginning and end of each run, and approx. one per hour during run.

8. Data handling

display analog/digital (raw, processed; local, remote; continuous, intermittent)	Raw, analog, continuous on LPM; raw, analog, continuous on Display Monitor.
recording analog/digital (raw, processed; continuous, intermittent)	Raw, digitized, continuous.
manual/programmed A or D switching	Signal routing and lead identification programmed
manual/verbal data entry	Subject identification and measurement number.
A/D conversion frequency	2500 bps.
storage time analog/digital	Digitized till next data dump.
recording/storage quantity per subject	10 hours per subject. See # 13.

9. Derived quantities

other measurements required simultaneously for calculations	N/A
digital computation	N/A
display analog/digital; location; updating frequency	N/A
recording analog/digital	N/A
storage time analog/digital	N/A

10. Comparison with previous data N/A

11. Analog/digital display range & resolution/accuracy N/A

12. Printout frequency & other requirements N/A

13. Miscellaneous information, details on referenced items, etc.

Recording sequence: same as for EEG.

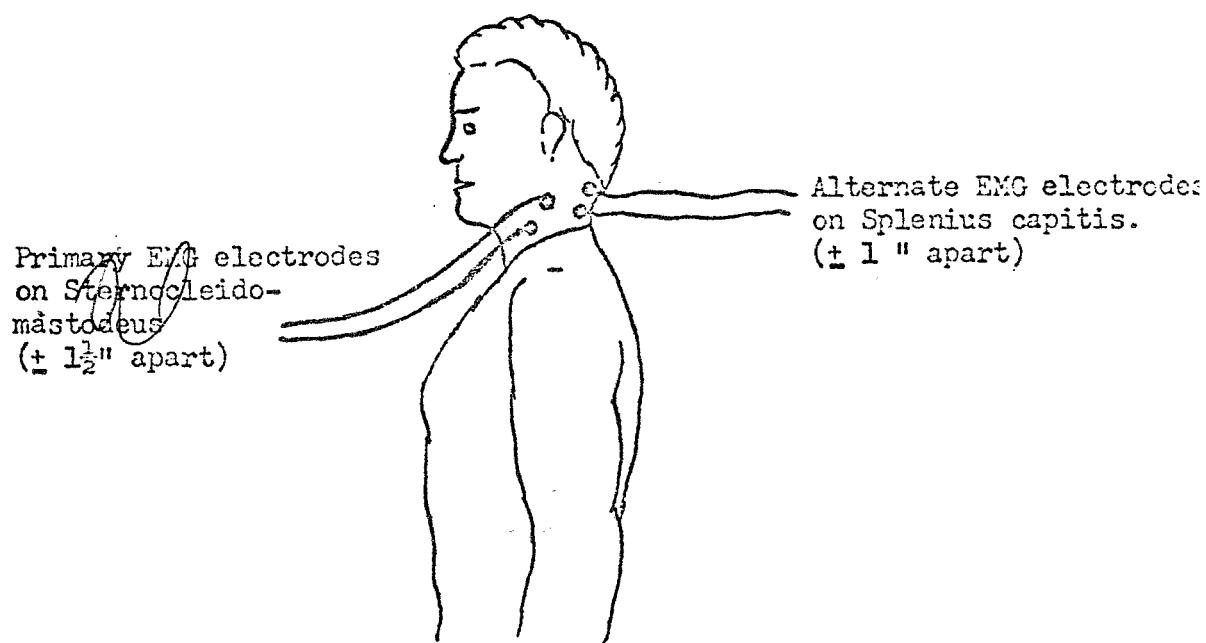
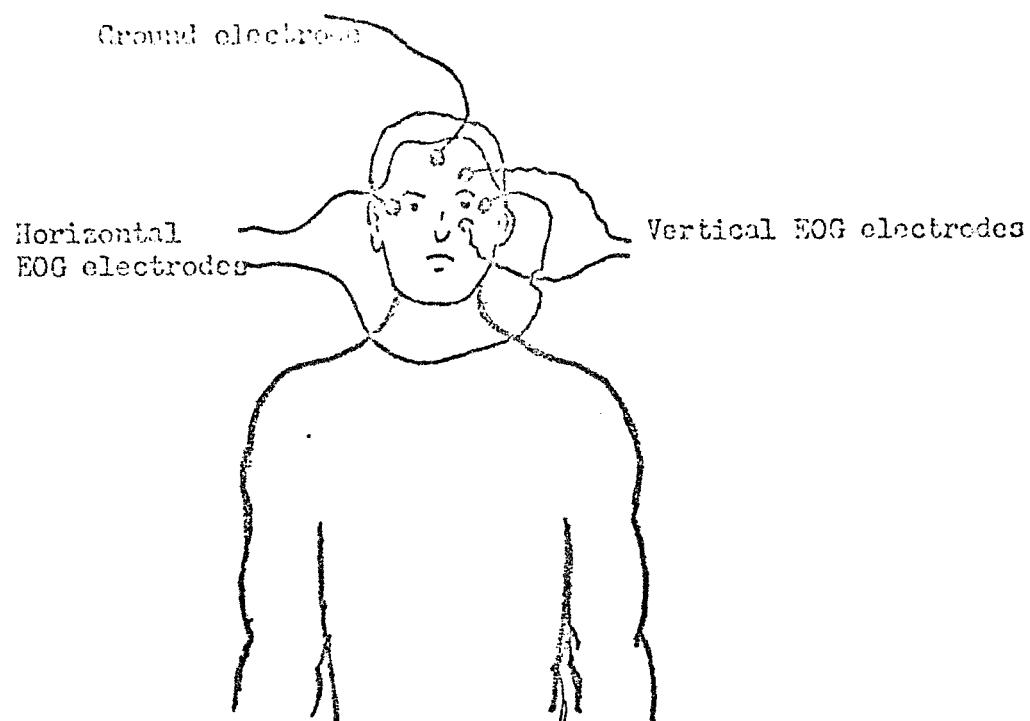
For Lab. Verif. record analog on pen recorder.

For sleep analysis S/Cs are to be mounted in separate box, together with those for the EEG and the ENG, near head-end of bed or couch.

EMG, EEG, and ENG are to be recorded simultaneously.

Parallel S/C input terminals are required on the box for external calibration by means of the portable Calibration Unit.

FOG AND FINE MUSCULAR LOCALIZERS



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PART 1 - PROGRAM

* ENHANCED PHYSIOLOGICAL DATA RECORDING
 * SET SWITCHES

* 610001 000001 000001 000001 000001

600207 000207 000207 000207 000207

600101 000101 000101 000101 000101

600102 000102 000102 000102 000102

600103 000103 000103 000103 000103

600104 000104 000104 000104 000104

600105 000105 000105 000105 000105

600106 000106 000106 000106 000106

600107 000107 000107 000107 000107

600108 000108 000108 000108 000108

600109 000109 000109 000109 000109

600110 000110 000110 000110 000110

600111 000111 000111 000111 000111

600112 000112 000112 000112 000112

610003 000003 000003 000003 000003

600700 000700 000700 000700 000700

610009 000900 000900 000900 000900

610011 010011 010011 010011 010011

610012 000000 000000 000000 000000

610013 100217 100217 100217 100217

610014 010017 R 010017 R 010017 R 010017 R

610015 010107 010107 010107 010107

610016 000200 000200 000200 000200

610017 100217 100217 100217 100217

610018 010071 R 010071 R 010071 R 010071 R

610019 001000 001000 001000 001000

610020 010012 010012 010012 010012

610021 100223 100223 100223 100223

610022 000200 000200 000200 000200

610023 010017 R 010017 R 010017 R 010017 R

610024 010017 NAA 010017 NAA 010017 NAA 010017 NAA

610025 000000 000000 000000 000000

610026 100200 100200 100200 100200

610027 001000 001000 001000 001000

610028 010012 010012 010012 010012

610029 000000 000000 000000 000000

610030 100212 100212 100212 100212

*

* ENTER FROM ANALOG RECORDER STOP SWITCH

610031 010101 NC 010101 NC 010101 NC

610032 000000 000000 000000 000000

610033 100200 100200 100200 100200

610034 010113 LCB 010113 LCB 010113 LCB

610035 000000 000000 000000 000000

610036 100200 100200 100200 100200

610037 000000 000000 000000 000000

610038 100200 100200 100200 100200

610039 001000 001000 001000 001000

610040 100212 100212 100212 100212

*

* ENHANCED PHYSIOLOGICAL CONSTANTS, STORAGE

DATA TABLES

		CNT	DATA	DATA	ANALOG SWITCH TABLE
010045	000005		,DATA	,0405	
010044	000004		,DATA	,01105	
010043	000003		,DATA	,01107	
010046	000006		,DATA	,02005	
010047	000007		,DATA	,02401	
010050	000010		,DATA	,03005	
010051	000011		,DATA	,03402	
010052	000012		,DATA	,04007	
010057	000017		,DATA	,04407	
010054	000014		,DATA	,05005	
010055	000015		,DATA	,05407	
010056	000016		,DATA	,06004	
010057	000017		,DATA	,06405	
010060	000020		,DATA	,07007	
010061	000021		,DATA	,07410	
010062	000022		,DATA	,010011	
010067	000027		,DATA	,012470	
010064	000024		,DATA	,011000	
010063	000023		,DATA	,011470	
010065	000025		,DATA	,012000	
010067	000027	END	,DATA	,20	
			,END	,	

LITERALS

PATTERNS

SYMBOLS

1	010067	R	FAT
1	010043	P	S/T
1	010074	R	100
1	010074	R	100
1	010026	R	840
1	010017	R	1AA
1	010015	R	1A
1	010003	R	4EUP
1	000212	Z	EAPT
1	000110	Z	411F
1	000207	Z	SYLT
1	000107	Z	ATE
1	000105	Z	SIX
1	000101	Z	T-O
1	010225	Z	SISI
1	000217	Z	SEND

<u>Step</u>	<u>Remarks</u>
1. Unstow transducers, cables, thigh venous occlusion cuff(s); check equipment.	
2. Connect signal conditioner box cable to PBM and transducer cable to S/C box. Apply thigh cuff. Apply transducers to widest part of calf with adhesive washers and small amount of coupling jelly. Adjust position of transducers for maximum signal.	
3. Turn "ON" signal conditioner control box; set gain to high sensitivity; zero out phase-shift.	
4. Verify console power connected, "Operating Mode" switch "normal" and Console Power Switch "ON" and Computer "ON".	
5. Perform safety check. Verify subject is isolated from ground by use of a rubber mat. Verify no power cables, consoles or racks within reach of test subject. Verify no personnel, other than operator, attendant and medical representative within 5 ft. of test subject. Verify that LMSC approved test subject is used. Verify impedance between subject's wet fingers and ground. Obtain safety approval for test.	Impedance Power Off _____ APPROVED: _____
6. Initiate Processor Keyboard push buttons (V 01, N 38) for Ultrasonic Measurement Procedure. Depress "Enter" button on Processor Keyboard; verify display of correct 'Program'.	
7. Start 4-channel scope according to Start-Up Procedure. Don head set, plug into "Intercom" jack.	
8. Enter Astronaut identification, mission day, mission time, organ system (3), Test No. (), Test Value () at Numerical Data Entry Panel.	
9. Log subject, date, test and channel identification; turn pen recorders "ON".	LP Ch. 9 Initial Tape Footage _____
10. Push both Analog Tape Recorder "RECORD" buttons. Log subject, date, test and channel identification on intercom and tape setting on pen records.	
11. Instruct subject to hold still.	
12. Momentarily retain phase shift control to "10" reading on meter and return to minimal setting after two seconds. This provides the calibration amplitude.	
13. Set plethysmograph air pressure regulator to 0.4 psi.	46

StepRemarks

14. Close cuff bleed-off valve, open air inlet; after exactly 15 seconds, simultaneously close cuff air inlet and open cuff bleed-off.
15. Zero out phase shift at lowest meter reading.
16. Repeat steps #11 through #14 every 3 - 5 minutes as required.
17. Turn pen recorders "OFF". Log subject, date, test complete, identification and tape settings on pen records and intercom.
18. Push Analog Tape Recorder "OFF" button.
19. Turn "OFF" signal conditioner control box and disconnect cable from PADM.
20. Take off transducers from leg.
21. Turn PADM and Computer "OFF" if no further testing.

Final Tape Footage _____

SHEET 1 OF 2 SHEETS

DIRECT VENOUS PRESSURE MEASUREMENT(This measurement is taken prior to ATP check
and is used as baseline data)

Step

Remarks

1. Set up and connect Statham P-37 Miniature Blood Pressure assembly and perform calibration procedure, using oscilloscope or strip-chart recorder and micromanometer.

Calibration Against Wall Manometer

2. Sterilize P-37 assembly and attach to syringe. Apply to arm cuff and inflate to 80 mm Hg. Cleanse skin area over a prominent vein about half-way down the left forearm; insert needle in distal direction; tape down transducer and signal lead.

Verify Direct Venous Pressure Trace

INDIRECT VENOUS PRESSURE MEASUREMENT

3. Unstow and check rigid arm plethysmograph equipment including power.
4. Verify air supply (20 mm Hg) using wall mounted manometer.
5. Connect umbilical to rigid arm plethysmograph and to the PBEM I/O Panel.
6. Insert left lower arm into cylinder plethysmograph and adjust arm seal; apply plethysmograph cuff to upper left arm; connect air tubing from 20 mm Hg wall supply to cuff.
7. Verify console power connected, "Operating Mode" switch "Backup" and Console Power Switch "On".
8. Enter verb-noun combination shown under "Remarks".
9. Start 4-channel scope according to Start-Up Procedure. Don head set, plug into intercom jack.
10. Log subject, date, test and channel identification; turn pen recorders ON.
11. Adjust both pressure transducer outputs on Ch. 3 and 4 so adequate coverage is afforded both traces.
12. Turn on tape recorders by pushing two "RECORD" buttons. Log subject, date, test and channel identification on intercom and tape settings on pen and tape recorders.
13. Instruct subject to sit perfectly still and relax completely.
14. Erase scope. Push reset sweep trigger button; acquire baseline data; inflate sphygmomanometer cuff to 20 mm Hg by opening air supply input. Instruct subject to sit still and hold his breath. Cuff inflates rapidly, pressure is released by operating pressure release clamp.

	Rec.			Scope		
	Ch.	V	N	Ch.	V	N

CPP	6	53	03	3	66	04
PLP	8	55	02	4	67	05

<u>Step</u>	<u>Remarks</u>
15.	After plethysmograph pressure levels off, place oscilloscope in "View" mode. Operator visually projects point where downward plethysmograph trace on 4-channel scope resumes horizontal course to cuff pressure trace. The voltage of the CPP trace is read at that point. (20 mm Hg is equivalent to 5 volts). The oscilloscope is placed in View Mode for clarity in reading voltage.
16.	Turn pen recorders "OFF". Log subject, date, test complete, identification and tape settings on pen records and intercom.
17.	Push Analog Tape Recorder "OFF" button.
18.	Turn "OFF" signal conditioner control box and disconnect cable from PBDM.
19.	Remove arm from rigid arm plethysmograph equipment. Stow the equipment.
20.	Turn PBDM "OFF" if no further testing.

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PAGE 000001

- * IMBLMS=INDIRECT VENOUS PRESSURE
- * SETS SWITCHES FOR CPP AND PLP
- * DISPLAYS ON SCOPE CHANNEL 3 4.
- * NOUN 53

ULTRASONIC PLETHYS.

NOUN 38

000212	ENRT	>EQU	>0212	
000225	ANSW	>EQU	>0225	
000103	FOUR	>EQU	>0103	
000220	KYLT	>EQU	>0220	
000101	TWO	>EQU	>0101	
000326	EVRB	>EQU	>0326	
000110	NINE	>EQU	>0110	
*				
010000		>ORG	>010000	
000700	IAOR	>BEGIN	>0700	
010000	010103	IVPR	>LDA	>FOUR
010001	002000		>JMPM*	>ANSW
010002	100225			
010003	010037 R		>PZE	>SWT
010004	010101		>LDA	>TWO
010005	006130		>ERAI	>0100000
010006	100000			
010007	002000		>JMPM*	>KYLT
010010	100220			
010011	010110		>LDA	>NINE
010012	002000		>JMPM*	>KYLT
010013	100220			
010014	014021		>LDA	>EAD
010015	050326		>STA	>EVRB
010016	001000		>JMP*	>ENRT
010017	100212			
010020	010101	AA	>LDA	>TWO
010021	002000		>JMPM*	>KYLT
010022	100220			
010023	010110		>LDA	>NINE
010024	006130		>ERAI	>0100000
010025	100000			
010026	002000		>JMPM*	>KYLT
010027	100220			
010030	010103		>LDA	>FOUR
010031	002000		>JMPM*	>ANSW
010032	100225			
010033	010043 R		>PZE	>SWTA
010034	001000		>JMP*	>ENRT
010035	100212			
010036	010020 R	EAD	>PZE	>AA
010037	002003	SWT	>DATA	>02003
010040	003002		>DATA	>03002
010041	007404		>DATA	>07404
010042	010006		>DATA	>010006
010043	002005	SWTA	>DATA	>02005
010044	003005		>DATA	>03005

TABLE FOR
ULTRASONIC. PLETH

4402

6002

7411

10014

4405

6005

7417

10017

PAGE 000002

010045	007417	>DATA	>07417
010046	010017	>DATA	>010017
	000000	>END	>

LITERALS

POINTERS

SYMBOLS

1	C10043	R	SWTA
1	C10037	R	SWT
1	C10036	R	EAD
1	C10020	R	AA
1	C10000	R	IVPR
1	C00110		NINE
1	C00326		EVRE
1	C00101		TWO
1	C00220		KYLT
1	C00103		FCUR
1	C00225		ANSW
1	C00212		ENRT

Numerical Data Entry

Operating Instructions:

1. Load program
2. VERB 01 NOUN 63 Hematology
VERB 01 NOUN 65 Vital Signs
VERB 01 NOUN 66 Urinalysis
VERB 01 NOUN 67 Metabolic
3. Depress "ENTER"
4. Value to be entered is displayed on digital display #1.
5. Enter value in test value thumbwheel and depress "INPUT." Value will be displayed. If correct, depress "RECORD." If incorrect, depress "CLEAR", change value in thumbwheel and depress "INPUT."
6. After last value has been entered, "END" will be displayed.
7. To obtain printout, depress "PRINT."

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* INBLMS NUMERICAL DATA ENTRY

*
*

HEMATOLOGY

000100	ONE	,EQU	,0100	
000101	TWO	,EQU	,0101	
000306	ASTR	,EQU	,0306	
000105	SIX	,EQU	,0105	
000106	SVN	,EQU	,0106	
000107	ATE	,EQU	,0107	
000110	NINE	,EQU	,0110	
000224	PRDR	,EQU	,0224	
000237	PADA	,EQU	,0237	
000322	PRAD	,EQU	,0322	
000236	TERM	,EQU	,0236	
000323	DGAD	,EQU	,0323	
000213	SENC	,EQU	,0213	
000214	CENC	,EQU	,0214	
000310	HCUR	,EQU	,0310	
000222	ECUT	,EQU	,0222	
000207	DEC8	,EQU	,0207	
000134	MSKE	,EQU	,0134	
000315	DSP1	,EQU	,0315	
000112	M1	,EQU	,0112	
000212	ENRT	,EQU	,0212	
000203	SDEL	,EQU	,0203	
000205	TDEL	,EQU	,0205	
000223	TWIN	,EQU	,0223	
000700	IAOR	,BEGIN	,0700	
010000		,ORG	,010000	
010000	005000	NDEN	,NOP	
010001	014227		,LDA	,PAD SET TABLE ADDRESSES
010002	050322		,STA	,PRAD
010003	014226		,LDA	,DAD
010004	050323		,STA	,DGAD
010005	010105		,LDA	,SIX SET ENCODER ADDRESSES
010006	002000		,JMPM*	,SENC
010007	100213			
010010	010067 R	,PZE	,NB	ENTER
010011	010106	,LDA	,SVN	
010012	002000	,JMPM*	,SENC	
010013	100213			
010014	010154 R	,PZE	,NG	PRINT
010015	010107	,LDA	,ATE	
010016	002000	,JMPM*	,SENC	
010017	100213			
010020	010113 R	,PZE	,NC	CLEAR
010021	010110	,LDA	,NINE	
010022	002000	,JMPM*	,SENC	
010023	100213			
010024	010127 R	,PZE	,ND	RECORD
010025	002000	,JMPM*	,TWIN	
010026	100223			
010027	000306	,PZE	,ASTR	
010030	014227	,LDA	,HDTR	PRINT HEADING

2 PAGE 039072

010031	002000	•JMPH*	•PRDP	
010032	100224			
010033	010261 R	•PZE	•HDTB+1	
010034	002000	•JMPM*	•PADA	PRINT ASTRO ID, DAY
010035	100237			
010036	010310	•LDA	•HOUR	PRINT TIME
010037	054217	•STA	•TIME+1	
010040	010100	•LDA	•ONE	
010041	002000	•JMPM*	•DOUT	
010042	100222			
010043	010256 R	•PZE	•TIME	
010044	017700 I NA	•LDA*	•OUT	ASSIGN ID TO DSP1
010045	001010	•JAZ	•NF	
010046	010144 R			
010047	150134	•ANA	•MSKE	
010050	050315	•STA	•DSP1	
010051	014161	•LDA	•OUT	
010052	054003	•STA	•*+4	
010053	010100	•LDA	•ONE	
010054	002000	•JMPM*	•DOUT	
010055	100222			
010056	000000	•PZE	•0	CURRENT OUT ADDRESS
010057	014154	•LDA	•FTM	
010060	001010	•JAZ	•*+4	
010061	010064 R			
010062	001000	•JMP*	•TDEL	
010063	100205			
010064	044157	•INR	•FTM	
010065	001000	•JMP*	•ENRT	
010066	100212			

*

* ENTER SWITCH ENTRY

010067	044143	•INR	•OUT	
010070	002000	•JMPM*	•TWIN	
010071	100223			
010072	010236 R	•PZE	•TWD	
010073	014146	•LDA	•TWD+4	COMBINE TEST VALUE DIGITS
010074	005002	•TZB		
010075	004454	•LLRL	•12	
010076	124142	•ADD	•TWD+3	
010077	002000	•JMPH*	•DECB	CONVERT TO BINARY
010100	100207			
010101	057700 I	•STA*	•OUT	
010102	014130	•LDA	•OUT	DISPLAY VALUE
010103	140100	•SUB	•ONE	
010104	054003	•STA	•*+4	
010105	010100	•LDA	•ONE	
010106	002000	•JMPM*	•DOUT	
010107	100222			
010110	000000	•PZE	•0	DISPLAY ADDRESS
010111	001000	•JMP*	•ENRT	AWAIT SWITCH ACTION
010112	100212			

*

PAGE 000003

* CLEAR SWITCH ENTRY

*
010113 010112 NC *LDA *M1 SET NO DATA WORD
010114 057700 I *STA* *OUT
010115 014115 *LDA *OUT RESET ADDRESS
010116 140100 *SUB *ONE
010117 054113 *STA *OUT
010120 054003 *STA *#4
010121 010100 *LDA *ONE CLEAR DISPLAY
010122 002000 *JMPM* *DOUT
010123 100222
010124 000000 *PZE *0
010125 001000 *JMP* *ENRT
010126 100212

* RECORD SWITCH ENTRY

*
010127 044103 ND *INR *OUT
010130 014117 *LDA *AON TURN ON DATA ACCEPTED
010131 103160 *CAR *060
010132 002000 *JMPM* *SUEL SET .7 SEC DELAY
010133 100203
010134 100007 *DATA *0100007
010135 010140 R *PZE *NE
010136 001000 *JMP* *ENRT
010137 100212

* TIME DELAY ENTRY

*
010140 014110 NE *LDA *AOF TURN OFF DATA ACCEPT
010141 103160 *CAR *060
010142 001000 *JMP *NA
010143 010044 R

* OUTPUT END TO DIGITAL DISPLAY

* AWAIT PRINT SWITCH

*
010144 014102 NF *LDA *ENO
010145 050315 *STA *DSP1
010146 010100 *LDA *ONE
010147 002000 *JMPM* *DOUT
010150 100222
010151 010245 R *PZE *EMS
010152 001000 *JMP* *ENRT
010153 100212

* PRINT SWITCH ENTRY

*
010154 014075 NG *LDA *SOT TURN OFF DISPLAY BIT
010155 054055 *STA *OUT
010156 017700 I NH *LDA* *OUT
010157 001010 *JAZ *NK
010160 010171 R *ANA *DMSK
010161 154071

010162	057700	I	*STA*	*OUT	
010163	014047		*LDA	*OUT	
010164	120101		*ADD	*TWO	
010165	054045		*STA	*OUT	
010166	044066		*INR	*OCT	
010167	001000		*JMP	*NH	
010170	010156	R			
010171	014060	NK	*LDA	*SOT	TURN ON PRINT BIT
010172	054040		*STA	*OUT	
010173	017700	I NL	*LDA*	*OUT	
010174	001010		*JAZ	*NM	
010175	010205	R			
010176	114055		*ORA	*PMSK	
010177	057700	I	*STA*	*OUT	
010200	014032		*LDA	*OUT	
010201	120101		*ADD	*TWO	
010202	054030		*STA	*OUT	
010203	001000		*JMP	*NL	
010204	010173	R			
010205	014047	NM	*LDA	*OCT	OUTPUT TO PRINTER
010206	002000		*JMPM*	*DOUT	
010207	100222				
010210	010442	R	*PZE	*OUTB	
010211	010105		*LDA	*SIX	RESET ENCODER
010212	002000		*JMPM*	*CENC	
010213	100214				
010214	010106		*LDA	*SVN	
010215	002000		*JMPM*	*CENC	
010216	100214				
010217	010107		*LDA	*ATE	
010220	002000		*JMPM*	*CENC	
010221	100214				
010222	010110		*LDA	*NINE	
010223	002000		*JMPM*	*CENC	
010224	100214				
010225	002000		*JMPM*	*TERM	
010226	100236				
010227	001000		*JMP*	*ENRT	
010230	100212				

* NDEN CONSTANTS STORAGE

010231	010267	R PAD	*PZE	*PTBL	PRINTER HEADING ADDRESS
010232	010353	R DAD	*PZE	*DTBL	DIGITAL HEADING ADDRESS
010233	010442	R CUT	*PZE	*OUTB	OUTPUT TABLE ADDRESS
010234	020377	END	*DATA	*020377	
010235	777777		*DATA	*1	
010236		TWD	*BSS	*5	THUMBWHEEL INPUT
010243		TA	*BSS	*1	TEMPORARY
010244	000000	FTM	*DATA	*0	FIRST TIME INDICATOR
010245	020377	ENS	*DATA	*020377	
010246	777777		*DATA	*1	
010247	000377	ENO	*DATA	*255	END MSG. ID
010250	106401	AON	*DATA	*0106401	ACCEPT LIGHT ON

010251	105400	ACF	*DATA	*0106400	ACCEPT LIGHT OFF
010252	010442 R	SOT	*DATA	*OUTB	RESTORE OUT
010253	157777	DMSK	*DATA	*0157777	DISPLAY MASK
010254	010000	PMSK	*DATA	*010000	PRINT MASK
010255	000000	OCT	*DATA	*0	OUTPUT COUNT
010256	050000	TIME	*DATA	*050000	TIME OUTPUT
010257	000000		*DATA	*0	

* NDE HEMATOLOGY TABLES

*					
010260	000005	HDTB	*DATA	*5	
010261	144305		*DATA	*'HEMATOLOGY'	
010262	146701				
010263	152317				
010264	146317				
010265	143731				
010266	000000		*DATA	*0	
010267	000144	PTSL	*DATA	*100	PRINTER IDOS
010270	144302		*DATA	*'HB'	
010271	120240				
010272	000145		*DATA	*101	
010273	144303		*DATA	*'HCT'	
010274	152240				
010275	000146		*DATA	*102	
010276	151302		*DATA	*'RBC'	
010277	141640				
010300	000147		*DATA	*103	
010301	153702		*DATA	*'WBC'	
010302	141640				
010303	000150		*DATA	*104	
010304	150240		*DATA	*'P'	
010305	120240				
010306	000151		*DATA	*105	
010307	146240		*DATA	*'L'	
010310	120240				
010311	000152		*DATA	*106	
010312	146640		*DATA	*'M'	
010313	120240				
010314	000153		*DATA	*107	
010315	142640		*DATA	*'E'	
010316	120240				
010317	000154		*DATA	*108	
010320	141240		*DATA	*'B'	
010321	120240				
010322	000155		*DATA	*109	
010323	141301		*DATA	*'BA'	
010324	120240				
010325	000156		*DATA	*110	
010326	146717		*DATA	*'MOR'	
010327	151240				
010330	000157		*DATA	*111	
010331	151305		*DATA	*'RET'	
010332	152240				
010333	000160		*DATA	*112	
010334	143301		*DATA	*'FAL'	

010335	146240		
010336	000161	DATA	*113
010337	146640	DATA	*PM *
010340	120240		
010341	000162	DATA	*114
010342	151725	DATA	*SUR *
010343	151240		
010344	000163	DATA	*115
010345	150326	DATA	*PV *
010346	120240		
010347	000164	DATA	*116
010350	141327	DATA	*BW *
010351	120240		
010352	000000	DATA	*0
010353	000144	DTBL	DATA *100 DISPLAY IDOS
010354	000425	DATA	*0425 HB
010355	017437	DATA	*017437
010356	000145	DATA	*101
010357	000411	DATA	*0411 HCT
010360	000037	DATA	*037
010361	000146	DATA	*102
010362	001025	DATA	*01025 RBC
010363	004437	DATA	*04437
010364	000147	DATA	*103
010365	005025	DATA	*05025 ZBC
010366	004437	DATA	*04437
010367	000150	DATA	*104
010370	002037	DATA	*02037 P
010371	017437	DATA	*017437
010372	000151	DATA	*105
010373	003037	DATA	*03037 L
010374	017437	DATA	*017437
010375	000152	DATA	*106
010376	012037	DATA	*012037 M
010377	017437	DATA	*017437
010400	000153	DATA	*107
010401	007437	DATA	*07437 E
010402	017437	DATA	*017437
010403	000154	DATA	*108
010404	012437	DATA	*012437 B
010405	017437	DATA	*017437
010406	000155	DATA	*109
010407	012415	DATA	*012415 BA
010410	017437	DATA	*017437
010411	000156	DATA	*110
010412	012010	DATA	*012010 MOR
010413	001037	DATA	*01037
010414	000157	DATA	*111
010415	001017	DATA	*01017 RET
010416	000037	DATA	*037
010417	000160	DATA	*112
010420	011015	DATA	*011015 FAL
010421	003037	DATA	*03037
010422	000161	DATA	*113

010423	012037	DATA	012037	M
010424	017437	DATA	017437	
010425	000162	DATA	114	
010426	002407	DATA	02407	SUR
010427	001037	DATA	01037	
010430	000163	DATA	115	
010431	002016	DATA	02016	PV
010432	017437	DATA	017437	
010433	000164	DATA	116	
010434	012420	DATA	012420	BW
010435	017437	DATA	017437	
010436	000377	DATA	255	
010437	007403	DATA	07403	END
010440	011437	DATA	011437	
010441	000000	DATA	0	
010442	120544	CUTB	0120544	
010443	777777	DATA	-1	
010444	120145	DATA	0120145	
010445	777777	DATA	-1	
010446	120546	DATA	0120546	
010447	777777	DATA	-1	
010450	120147	DATA	0120147	
010451	777777	DATA	-1	
010452	120150	DATA	0120150	
010453	777777	DATA	-1	
010454	120151	DATA	0120151	
010455	777777	DATA	-1	
010456	120152	DATA	0120152	
010457	777777	DATA	-1	
010460	120153	DATA	0120153	
010461	777777	DATA	-1	
010462	120154	DATA	0120154	
010463	777777	DATA	-1	
010464	120155	DATA	0120155	
010465	777777	DATA	-1	
010466	120156	DATA	0120156	
010467	777777	DATA	-1	
010470	120557	DATA	0120557	
010471	777777	DATA	-1	
010472	121160	DATA	0121160	
010473	777777	DATA	-1	
010474	120561	DATA	0120561	
010475	777777	DATA	-1	
010476	120162	DATA	0120162	
010477	777777	DATA	-1	
010500	120563	DATA	0120563	
010501	777777	DATA	-1	
010502	120564	DATA	0120564	
010503	777777	DATA	-1	
010504	000000	DATA	0	
	000000	END		

LITERALS

PRINTERS
000700 110237

4/29/70

* INBLMS NUMERICAL DATA ENTRY

URINALYSIS

000100	CNE	,EQU	,0100	
000101	TWO	,EQU	,0101	
000105	SIX	,EQU	,0105	
000306	ASTR	,EQU	,0306	
000106	SVN	,EQU	,0106	
000107	ATE	,EQU	,0107	
000110	NINE	,EQU	,0110	
000224	PROP	,EQU	,0224	
000237	PADA	,EQU	,0237	
000322	PRAB	,EQU	,0322	
000236	TERM	,EQU	,0236	
000323	DGAD	,EQU	,0323	
000213	SENC	,EQU	,0213	
000214	CENO	,EQU	,0214	
000310	HOUR	,EQU	,0310	
000222	BOUT	,EQU	,0222	
000207	DEC8	,EQU	,0207	
000134	MSKE	,EQU	,0134	
000315	DSP1	,EQU	,0315	
000112	M1	,EQU	,0112	
000212	ENRT	,EQU	,0212	
000203	SDEL	,EQU	,0203	
000205	TDEL	,EQU	,0205	
000223	TWIN	,EQU	,0223	
000700	IAOR	,BEGIN	,0700	
010000		,ORG	,010000	
010000	005000	NDEN	,SNOP	
010001	014227	,LDA	,PAD	SET TABLE ADDRESSES
010002	050322	,STA	,PRAD	
010003	014226	,LDA	,DAD	
010004	050323	,STA	,DGAD	
010005	010105	,LDA	,SIX	SET ENCODER ADDRESSES
010006	002000	,JMPM*	,SENC	
010007	100213			
010010	010067 R	,PZE	,NB	ENTER
010011	010106	,LDA	,SVN	
010012	002000	,JMPM*	,SENC	
010013	100213			
010014	010154 R	,PZE	,NG	PRINT
010015	010107	,LDA	,ATE	
010016	002000	,JMPM*	,SENC	
010017	100213			
010020	010113 R	,PZE	,NC	CLEAR
010021	010110	,LDA	,NINE	
010022	002000	,JMPM*	,SENC	
010023	100213			
010024	010127 R	,PZE	,ND	RECORD
010025	002000	,JMPM*	,TWIN	
010026	100223			
010027	000306	,PZE	,ASTR	
010030	014227	,LDA	,HDTP	PRINT HEADING

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010031	002000	*JMPM*	*PRDR	
010032	100224			
010033	010251 R	*PZE	*HDTB+1	
010034	002000	*JMPM*	*PADA	PRINT ASTRO ID, DAY
010035	100227			
010036	010310	*LDA	*HOUR	PRINT TIME
010037	054217	*STA	*TIME+1	
010038	010100	*LDA	*ONE	
010039	002000	*JMPM*	*DOUT	
010040	100222			
010041	010256 R	*PZE	*TIME	
010042	017700 I NA	*LDA*	*OUT	ASSIGN_ID_TO_DSP1
010043	001010	*JAZ	*NF	
010044	010144 R			
010045	150134	*ANA	*MSKE	
010046	050315	*STA	*DSP1	
010047	014161	*LDA	*OUT	
010048	054003	*STA	*+4	
010049	010100	*LDA	*ONE	
010050	002000	*JMPM*	*DOUT	
010051	100222			
010052	000000	*PZE	*0	CURRENT_OUT_ADDRESS
010053	014164	*LDA	*FTM	
010054	001010	*JAZ	*+4	
010055	010064 R	*JMP*	*TDEL	
010056	001000			
010057	100205			
010058	044157	*INR	*FTM	
010059	001000	*JMP*	*ENRT	
010060	100212			
*				

* ENTER SWITCH ENTRY

010061	044143 NB	*INR	*OUT	
010062	002000	*JMPM*	*TWIN	
010063	100223			
010064	010236 R	*PZE	*TWD	
010065	014146	*LDA	*TWD+4	COMBINE_TEST_VALUE_DIGITS
010066	005002	*TZB	*	
010067	004454	*LLRL	*12	
010068	124142	*ADD	*TWD+3	
010069	002000	*JMPM*	*DEC8	CONVERT_TO_BINARY
010070	100207			
010071	057700 I	*STA*	*OUT	
010072	014130	*LDA	*OUT	DISPLAY VALUE
010073	140100	*SUB	*ONE	
010074	054003	*STA	*+4	
010075	010100	*LDA	*ONE	
010076	002000	*JMPM*	*DOUT	
010077	100222			
010078	000000	*PZE	*0	DISPLAY ADDRESS
010079	001000	*JMP*	*ENRT	AWAIT_SNITCH_ACTION
010080	100212			
*				

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* CLEAR SWITCH ENTRY

C10113	010112	NC	•LDA	•MI	SET NO DATA WORD
C10114	057700	I	•STA*	•OUT	
C10115	014115		•LDA	•OUT	RESET ADDRESS
C10116	140100		•SUB	•ONE	
C10117	054113		•STA	•OUT	
C10120	054003		•STA	•**+4	
C10121	010100		•LDA	•ONE	CLEAR DISPLAY
C10122	002000		•JMPH*	•DOUT	
C10123	100222				
C10124	000000		•PZE	•0	
C10125	001000		•JMP*	•ENRT	
C10126	100212				

*

* RECORD SWITCH ENTRY

C10127	044103	ND	•INR	•OUT	
C10130	014117		•LDA	•AON	TURN ON DATA ACCEPTED
C10131	103160		•CAR	•060	
C10132	002000		•JMPH*	•SUCL	SET .7 SEC DELAY
C10133	100200				
C10134	100007		•DATA	•0100007	
C10135	010140	R	•PZE	•NE	
C10136	001000		•JMP*	•ENRT	
C10137	100212				

*

* TIME DELAY ENTRY

C10140	014110	NE	•LDA	•AOF	TURN OFF DATA ACCEPT
C10141	103160		•CAR	•060	
C10142	001000		•JMP	•NA	
C10143	010044	R			

*

* OUTPUT END TO DIGITAL DISPLAY

* AWAIT PRINT SWITCH

C10144	014102	NF	•LDA	•ENO	
C10145	050315		•STA	•DSP1	
C10146	011100		•LDA	•ONE	
C10147	002000		•JMPM*	•DOUT	
C10150	100222				
C10151	010245	R	•PZE	•EMS	
C10152	001000		•JMP*	•ENRT	
C10153	100212				

*

* PRINT SWITCH ENTRY

C10154	014075	NG	•LDA	•SOT	TURN OFF DISPLAY BIT
C10155	054055		•STA	•OUT	
C10156	017700	I NH	•LDA*	•OUT	
C10157	001010		•JAZ	•NK	
C10160	010171	R			
C10161	154071		•ANA	•DMSK	

010162	057700	I	*STA*	*OUT	
010163	014047		*LPA	*OUT	
010164	120101		*ADD	*TWO	
010165	054045		*STA	*OUT	
010166	044066		*INR	*OCT	
010167	001000		*JMP	*NH	
010170	010150	R			
010171	014060	NK	*LDA	*SOT	TURN ON PRINT BIT
010172	054040		*STA	*OUT	
010173	017700	I NL	*LDA*	*OUT	
010174	001010		*JAZ	*NM	
010175	010205	R			
010176	114055		*CRA	*PMSK	
010177	037700	I	*STA*	*OUT	
010200	014032		*LPA	*OUT	
010201	120101		*ADD	*TWO	
010202	054030		*STA	*OUT	
010203	001000		*JMP	*NL	
010204	010173	R			
010205	014047	NM	*LDA	*OCT	OUTPUT TO PRINTER
010206	002000		*JMPM*	*DOUT	
010207	100222				
010210	010451	R	*P7E	*OUTB	
010211	010105		*LDA	*SIX	RESET ENCODER
010212	002000		*JMPM*	*CENC	
010213	100214				
010214	010106		*LDA	*SVN	
010215	002000		*JMPM*	*CENC	
010216	100214				
010217	010107		*LDA	*ATE	
010220	002000		*JMPM*	*CENC	
010221	100214				
010222	010110		*LDA	*NINE	
010223	002000		*JMPM*	*CENC	
010224	100214				
010225	002000		*JMPM*	*TERM	
010226	100236				
010227	001000		*JMP*	*ENRT	
010230	100212				

* NDEN CONSTANTS STORAGE

010231	010270	R PAD	*P7E	*PTBL	PRINTER HEADING ADDRESS
010232	010357	R PAD	*P7E	*DTBL	DIGITAL HEADING ADDRESS
010233	010451	R OUT	*P7E	*OUTP	OUTPUT TABLE ADDRESS
010234	020377	END	*DATA	*020377	
010235	777777		*DATA	*1	
010236		TWD	*BSS	*5	THUMBWHEEL INPUT
010243		TA	*BSS	*1	TEMPORARY
010244	000000	FTM	*DATA	*0	FIRST TIME INDICATOR
010245	020377	EMS	*DATA	*020377	
010246	777777		*DATA	*1	
010247	000377	ENO	*DATA	*255	END MSG. ID
010250	106401	AON	*DATA	*0106401	ACCEPT LIGHT ON

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010251	195400	ADF	,DATA	,0106400	ACCEPT LIGHT OFF
010252	012451 R	SOT	,#ZE	,OUTR	RESTORE OUT
010253	137777	DMSK	,DATA	,0157777	DISPLAY MASK
010254	010000	PMSK	,DATA	,010000	PRINT MASK
010255	000000	COT	,DATA	,0	OUTPUT COUNT
010256	050000	TIME	,DATA	,050000	TIME OUTPUT
010257	000000		,DATA	,0	

* INDE URINALYSIS TABLES

010260	000006	HDTB	,DATA	,6	
010261	152722		,DATA	,URINALYSIS	
010262	144716				
010263	148714				
010264	154723				
010265	144723				
010266	120240				
010267	000000		,DATA	,0	
010270	000165	PTBL	,DATA	,117	PRINTER IDOS
010271	153317		,DATA	,VOL	
010272	146240				

010273	000166		,DATA	,118	
010274	151720		,DATA	,SPG	
010275	143640				

010276	000167		,DATA	,119	
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010277	150310		,DATA	,PH	
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010300	120240				
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010301	000170		,DATA	,120	
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010302	150322		,DATA	,PRO	
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010303	147640				
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010304	000171		,DATA	,121	
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010305	143640		,DATA	,G	
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010306	120240				
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010307	000172		,DATA	,122	
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010310	141314		,DATA	,BL	
--------	--------	--	-------	-----	--

010311	120240				
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010312	000173		,DATA	,123	
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010313	141311		,DATA	,BI	
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010314	120240				
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010315	000174		,DATA	,124	
--------	--------	--	-------	------	--

010316	151705		,DATA	,SED	
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010317	142240				
--------	--------	--	--	--	--

010320	000175		,DATA	,125	
--------	--------	--	-------	------	--

010321	141301		,DATA	,BAC	
--------	--------	--	-------	------	--

010322	141640				
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010323	000176		,DATA	,126	
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010324	151302		,DATA	,RBC	
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010325	141640				
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010326	000177		,DATA	,127	
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010327	153702		,DATA	,WBC	
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010330	141640				
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010331	000200		,DATA	,128	
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010332	141723		,DATA	,CST	
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010333	152240				
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010334	000201	DATA	s129
010335	141722	DATA	s'CR
010336	146240		
010337	007202	DATA	s130
010340	147301	DATA	s'NA
010341	120240		
010342	007203	DATA	s131
010343	145640	DATA	s'K
010344	120240		
010345	000204	DATA	s132
010346	141640	DATA	s'C
010347	120240		
010350	007205	DATA	s133
010351	141701	DATA	s'CA
010352	120240		
010353	000206	DATA	s134
010354	150240	DATA	s'P
010355	120240		
010356	000000	DATA	s0
010357	000165	DTBL	DATA s117 DISPLAY IDOS
010360	007010	DATA	s07010 VOL
010361	003037	DATA	s03037
010362	000166	DATA	s118 SPG
010363	017405	DATA	s017405
010364	002022	DATA	s02022
010365	000167	DATA	s119 PH
010366	002001	DATA	s02001
010367	017437	DATA	s017437
010370	000170	DATA	s120 PRO
010371	002002	DATA	s02002
010372	004037	DATA	s04037
010373	000171	DATA	s121 G
010374	017437	DATA	s017437
010375	017422	DATA	s017422
010376	000172	DATA	s122 BL
010377	012406	DATA	s012406
010400	017437	DATA	s017437
010401	000173	DATA	s123 BI
010402	012423	DATA	s012423
010403	017437	DATA	s017437
010404	000174	DATA	s124 SED
010405	002417	DATA	s02417
010406	011437	DATA	s011437
010407	000175	DATA	s125 BAC
010410	012415	DATA	s012415
010411	004437	DATA	s04437
010412	007176	DATA	s126 RBC
010413	001025	DATA	s01025
010414	004437	DATA	s04437
010415	000177	DATA	s127 WBC
010416	017425	DATA	s017425
010417	004437	DATA	s04437
010420	000200	DATA	s128 CST
010421	004405	DATA	s04405

010422	000037	*DATA	*037	
010423	000201	*DATA	*129	CRL
010424	004402	*DATA	*04402	
010425	000307	*DATA	*03037	
010426	000202	*DATA	*130	NA
010427	001415	*DATA	*01415	
010430	017437	*DATA	*017437	
010431	000203	*DATA	*131	K
010432	017437	*DATA	*017437	
010433	017424	*DATA	*017424	
010434	000204	*DATA	*132	CL
010435	004406	*DATA	*04406	
010436	017437	*DATA	*017437	
010437	000205	*DATA	*133	CA
010440	004415	*DATA	*04415	
010441	017437	*DATA	*017437	
010442	000206	*DATA	*134	P
010443	002037	*DATA	*02037	
010444	017437	*DATA	*017437	
010445	000377	*DATA	*255	
010446	007403	*DATA	*07403	END
010447	011437	*DATA	*011437	
010450	000000	*DATA	*0	
010451	120165	GUTB	*DATA	*0120165
010452	777777		*DATA	*-1
010453	121566		*DATA	*0121566
010454	777777		*DATA	*-1
010455	120567		*DATA	*0120567
010456	777777		*DATA	*-1
010457	120170		*DATA	*0120170
010460	777777		*DATA	*-1
010461	120171		*DATA	*0120171
010462	777777		*DATA	*-1
010463	120172		*DATA	*0120172
010464	777777		*DATA	*-1
010465	120173		*DATA	*0120173
010466	777777		*DATA	*-1
010467	120174		*DATA	*0120174
010470	777777		*DATA	*-1
010471	120175		*DATA	*0120175
010472	777777		*DATA	*-1
010473	120176		*DATA	*0120176
010474	777777		*DATA	*-1
010475	120177		*DATA	*0120177
010476	777777		*DATA	*-1
010477	120200		*DATA	*0120200
010500	777777		*DATA	*-1
010501	120201		*DATA	*0120201
010502	777777		*DATA	*-1
010503	120202		*DATA	*0120202
010504	777777		*DATA	*-1
010505	120603		*DATA	*0120603
010506	777777		*DATA	*-1
010507	120204		*DATA	*0120204

PAGE 000010

010510	777777	sDATA	s=1
010511	120605	sDATA	s0120605
010512	777777	sDATA	s=1
010513	120606	sDATA	s0120606
010514	777777	sDATA	s=1
010515	000000	sDATA	s0
	000000	sEND	s

LITERALS

POINTERS

000700 110233

SYMBOLS

1	C10451	R	OUTS
1	C10357	R	DTBL
1	C10270	R	PTBL
1	C10260	R	HDTB
1	C10256	R	TIME
1	C10255	R	OCT
1	C10254	R	PMSK
1	C10253	R	DMSK
1	C10252	R	SOT
1	L10251	R	AOF
1	C10250	R	AON
1	C10247	R	ENO
1	C10245	R	EMS
1	C10244	R	FTM
0	C10243	R	TA
1	C10236	R	TWD
1	C10234	R	END
1	C10233	R	OUT
1	C10232	R	DAD
1	C10231	R	PAD
1	C10205	R	NM
1	C10173	R	NL
1	L10171	R	NK
1	C10156	R	NH
1	C10154	R	NG
1	C10144	R	NF
1	C10140	R	NE
1	C10127	R	ND
1	C10113	R	NC
1	L10067	R	NS
1	C10044	R	NA
1	C10000	R	NDEN
1	L00223		TWIN
1	L00205		TDEL
1	C00203		SEEL
1	L00212		ENRT
1	C00112		M1
1	L00315		DSP1

7/29/70

* IBMIMS NUMERICAL DATA ENTRY

*
*

METABOLIC + MICROBIO

000306	ASTP	,EQU	,0306
000100	ONE	,EQU	,0100
000101	TWO	,EQU	,0101
000105	SIX	,EQU	,0105
000106	SVN	,EQU	,0106
000107	ATE	,EQU	,0107
000110	NTNE	,EQU	,0110
000224	PRDR	,EQU	,0224
000237	PADA	,EQU	,0237
000322	PRAD	,EQU	,0322
000236	TERM	,EQU	,0236
000323	DGAD	,EQU	,0323
000213	SENC	,EQU	,0213
000214	CENC	,EQU	,0214
000310	HOUR	,EQU	,0310
000222	DOT	,EQU	,0222
000207	DEC9	,EQU	,0207
000134	MSKE	,EQU	,0134
000315	DSP1	,EQU	,0315
000112	M1	,EQU	,0112
000212	ENRT	,EQU	,0212
000203	SDEL	,EQU	,0203
000205	TEEL	,EQU	,0205
000223	TWIN	,EQU	,0223
000700	TAOR	,EQU	,0700

010000		,CRG	,010000
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010000	005000	NDEN	,NOP	,
010001	014227		,LDA	,PAD

SET TABLE ADDRESSES

010002	050322		,STA	,PRAD
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010003	014226		,LDA	,DAD
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010004	050323		,STA	,DGAD
--------	--------	--	------	-------

010005	010105		,LDA	,SIX
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SET ENCODER ADDRESSES

010006	002000		,JMPM*	,SENC
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010007	100213			
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010010	010067 R		,PZE	,NR
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ENTER

010011	010106		,LDA	,SVN
--------	--------	--	------	------

010012	002000		,JMPM*	,SENC
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010013	100213			
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010014	010154 R		,PZE	,NG
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PRINT

010015	010107		,LDA	,ATE
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010016	002000		,JMPM*	,SENC
--------	--------	--	--------	-------

010017	100213			
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010020	010113 R		,PZE	,NC
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CLEAR

010021	010110		,LDA	,NINE
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010022	002000		,JMPM*	,SENC
--------	--------	--	--------	-------

010023	100213			
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010024	010127 R		,PZE	,ND
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RECORD

010025	002000		,JMPM*	,TWIN
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010026	100223			
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010027	000306		,PZE	,ASTR
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PRINT HEADING

010030	014227		,LDA	,HDTE
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PAGE 000002

010031	002000	*JMPM*	*PRDR	
010032	100224			
010033	010261 R	*PZE	*HDTP+1	
010034	002000	*JMPM*	*PADA	PRINT ASTRO ID, DAY
010035	100237			
010036	010310	*LDA	*HOUR	PRINT TIME
010037	054217	*STA	*TIME+1	
010040	010100	*LDA	*ONE	
010041	002000	*JMPM*	*DOUT	
010042	100222			
010043	010256 R	*PZE	*TIME	
010044	017700 I RA	*LDA*	*OUT	ASSIGN ID TO DSP1
010045	001010	*JAZ	*NF	
010046	011144 R	.		
010047	150134	*ANA	*MSKE	
010050	050315	*STA	*DSP1	
010051	014161	*LDA	*OUT	
010052	054003	*STA	*#+4	
010053	010100	*LDA	*ONE	
010054	002000	*JMPM*	*DOUT	
010055	100222			
010056	000000	*PZE	*0	CURRENT OUT ADDRESS
010057	014164	*LDA	*FTM	
010060	001010	*JAZ	*#+4	
010061	010064 R	*JMP *	*TDEL	
010062	001000			
010063	100205			
010064	044157	*INR	*FTM	
010065	001000	*JMP*	*ENRT	
010066	100212	*		

* ENTER SWITCH ENTRY

010067	044143 NB	*INR	*OUT	
010070	002000	*JMPM*	*TWIN	
010071	100223			
010072	010236 R	*PZE	*TWD	
010073	014146	*LDA	*TWD+4	COMBINE TEST VALUE DIGITS
010074	005002	*TZB	*	
010075	004454	*LLRL	*12	
010076	124142	*ADD	*TWD+3	
010077	002000	*JMPM*	*DEC8	CONVERT TO BINARY
010100	100207			
010101	057700 I	*STA*	*OUT	
010102	014130	*LDA	*OUT	DISPLAY VALUE
010103	140100	*SUB	*ONE	
010104	054003	*STA	*#+4	
010105	010100	*LDA	*ONE	
010106	002000	*JMPM*	*DOUT	
010107	100222			
010110	000000	*PZE	*0	DISPLAY ADDRESS
010111	001000	*JMP*	*ENRT	AWAIT SWITCH ACTION
010112	100212	*		

PAGE 000023

* CLEAR SWITCH ENTRY

*
010113 010112 NC *LDA *M1 SET NO DATA WORD
010114 057700 I *STA *OUT
010115 014115 *LDA *OUT RESET ADDRESS
010116 140100 *SUB *ONE
010117 054113 *STA *OUT
010120 054003 *STA ***+4
010121 010100 *LDA *ONE CLEAR DISPLAY
010122 002000 *JMPH* *DOUT
010123 100222
010124 000000 *PZE *0
010125 001000 *JMP* *ENRT
010126 100212

*

* RECORD SWITCH ENTRY

*
010127 044103 ND *INR *OUT
010130 014117 *LDA *AON TURN ON DATA ACCEPTED
010131 103160 *CAR *060
010132 002000 *JMPH* *SDEL SET .7 SEC DELAY
010133 100203
010134 100007 *DATA *0100007
010135 010140 R *PZE *NE
010136 001000 *JMP* *ENRT
010137 100212

*

* TIME DELAY ENTRY

*
010140 014110 NE *LDA *AOF TURN OFF DATA ACCEPT.
010141 103160 *CAR *060
010142 001000 *JMP *NA
010143 010044 R

*

* OUTPUT END TO DIGITAL DISPLAY

* AWAIT PRINT SWITCH

*

010144 014102 NF *LDA *ENO
010145 050315 *STA *DSP1
010146 010100 *LDA *ONE
010147 002000 *JMPH* *DOUT
010150 100222
010151 010245 R *PZE *EMS
010152 001000 *JMP* *ENRT
010153 100212

*

* PRINT SWITCH ENTRY

*

010154 014075 NG *LDA *SOT TURN OFF DISPLAY BIT
010155 054055 *STA *OUT
010156 017700 I NH *LDA* *OUT
010157 001010 *JAZ *NK
010160 010171 R *ANA *DMSK
010161 154071

010162	057700	I	*STA*	*OUT	
010163	014047		*LDA	*OUT	
010164	127101		*ADD	*TWO	
010165	054045		*STA	*CUT	
010166	044066		*INR	*OCT	
010167	001000		*JMP	*NH	
010170	010136	R			
010171	014060	NK	*LDA	*SOT	TURN ON PRINT BIT
010172	054040		*STA	*OUT	
010173	017700	I NL	*LDA*	*OUT	
010174	001010		*JAZ	*NM	
010175	010205	R			
010176	114055		*ORA	*PMSK	
010177	057700	I	*STA*	*OUT	
010200	014032		*LDA	*OUT	
010201	127101		*ADD	*TWO	
010202	054030		*STA	*OUT	
010203	001000		*JMP	*NL	
010204	010173	R			
010205	014047	NM	*LDA	*OCT	OUTPUT TO PRINTER
010206	002000		*JMPM*	*DOUT	
010207	100222				
010210	010431	R	*P7E	*OUTB	
010211	010105		*LDA	*SIX	RESET ENCODER
010212	002000		*JMPM*	*CENC	
010213	100214				
010214	010106		*LDA	*SVN	
010215	002000		*JMPM*	*CENC	
010216	100214				
010217	010107		*LDA	*ATE	
010220	002000		*JMPM*	*CENC	
010221	100214				
010222	010110		*LDA	*NINE	
010223	002000		*JMPM*	*CENC	
010224	100214				
010225	002000		*JMPM*	*TERM	
010226	100236				
010227	001000		*JMP*	*ENRT	
010230	100212				

* NDEN CONSTANTS STORAGE

010231	010300	R	PAD	*P7E	*PTBL	PRINTER HEADING ADDRESS
010232	010353	R	DAD	*P7E	*DTBL	DIGITAL HEADING ADDRESS
010233	010431	R	OUT	*P7E	*OUTB	OUTPUT TABLE ADDRESS
010234	020377		END	*DATA	*020377	
010235	777777			*DATA	*1	
010236			TWD	*BSS	*5	THUMBWHEEL INPUT
010243			TA	*BSS	*1	TEMPORARY
010244	000000		FTM	*DATA	*0	FIRST TIME INDICATOR
010245	020377		EMS	*DATA	*020377	
010246	777777			*DATA	*1	
010247	000377		ENO	*DATA	*255	END MSG. ID
010250	106401		ACN	*DATA	*0106401	ACCEPT LIGHT ON

010335	152240		
010336	000221	,DATA	,145
010337	150306	,DATA	,*PF
010340	120240		
010341	000222	,DATA	,146
010342	151713	,DATA	,*SK
010343	120240		
010344	000223	,DATA	,147
010345	152322	,DATA	,*TRT
010346	152240		
010347	000224	,DATA	,148
010350	152722	,DATA	,*UR
010351	120240		
010352	000000	,DATA	,0
010353	000207	DTBL ,DATA	,135 DISPLAY ID08
010354	001415	,DATA	,01415 NA
010355	017437	,DATA	,017437
010356	000210	,DATA	,136 K
010357	017437	,DATA	,017437
010360	017424	,DATA	,017424
010361	000211	,DATA	,137 CL
010362	004406	,DATA	,04406
010363	017437	,DATA	,017437
010364	000212	,DATA	,138 CA
010365	004415	,DATA	,04415
010366	017437	,DATA	,017437
010367	000213	,DATA	,139 P
010370	002037	,DATA	,02037
010371	017437	,DATA	,017437
010372	000214	,DATA	,140 PH
010373	002001	,DATA	,02001
010374	017437	,DATA	,017437
010375	000215	,DATA	,141 BC02
010376	012411	,DATA	,012411
010377	004002	,DATA	,04002
010400	000216	,DATA	,142 302
010401	012410	,DATA	,012410
010402	013037	,DATA	,013037
010403	000217	,DATA	,143 G
010404	017437	,DATA	,017437
010405	017422	,DATA	,017422
010406	000220	,DATA	,144 AST
010407	006405	,DATA	,06405
010410	000037	,DATA	,037
010411	000221	,DATA	,145 PF
010412	002022	,DATA	,02022
010413	017437	,DATA	,017437
010414	000222	,DATA	,146 SK
010415	017437	,DATA	,017437
010416	012424	,DATA	,012424
010417	000223	,DATA	,147 TRT
010420	000002	,DATA	,02
010421	000037	,DATA	,037
010422	000224	,DATA	,148 UR

010251	106400	ACF	*DATA	*0106400	ACCEPT LIGHT OFF
010252	010431 R	SCT	*PZE	*OUTB	RESTORE OUT
010253	157777	DMSK	*DATA	*0157777	DISPLAY MASK
010254	010000	PMSK	*DATA	*010000	PRINT MASK
010255	000000	OCT	*DATA	*0	OUTPUT COUNT
010256	050000	TIME	*DATA	*050000	TIME OUTPUT
010257	000000		*DATA	*0	

* NDE METABOLIC MICROBIOLOGICAL

*

010260	000016	HDTB	*DATA	*14	
010261	146705		*DATA	*'METABOLIC + MICROBIOLOGICAL'	

010262	152301				
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010263	141317				
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010264	146311				
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010265	141640				
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010266	125640				
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010267	146711				
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010270	141722				
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010271	147702				
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010272	144717				
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010273	146317				
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010274	143711				
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010275	141701				
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010276	146240				
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010277	000000		*DATA	*0	
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010300	000207	PTBL	*DATA	*135	PRINTER IDOS
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010301	147301		*DATA	*'NA'	
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010302	120240				
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010303	000210		*DATA	*136	
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010304	145640		*DATA	*'K'	
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010305	120240				
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010306	000211		*DATA	*137	
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010307	141714		*DATA	*'CL'	
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010310	120240				
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010311	000212		*DATA	*138	
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010312	141701		*DATA	*'CA'	
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010313	120240				
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010314	000213		*DATA	*139	
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010315	150240		*DATA	*'P'	
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010316	120240				
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010317	000214		*DATA	*140	
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010320	150310		*DATA	*'PH'	
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010321	120240				
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010322	000215		*DATA	*141	
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010323	141303		*DATA	*'BCC2'	
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010324	147662				
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010325	000216		*DATA	*142	
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010326	141317		*DATA	*'B02'	
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010327	131240				
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010330	000217		*DATA	*143	
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010331	143640		*DATA	*'G'	
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010332	120240				
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010333	000220		*DATA	*144	
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010334	140723		*DATA	*'AST'	
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000007

010423	003402	DATA	03402
010424	017437	DATA	017437
010425	007377	DATA	255
010426	007403	DATA	07403
010427	011437	DATA	011437
010430	000000	DATA	0
010431	120207	CUTB	0120207 NA
010432	777777	DATA	-1
010433	120610	DATA	0120610 K
010434	777777	DATA	-1
010435	120211	DATA	0120211 CL
010436	777777	DATA	-1
010437	120612	DATA	0120612 CA
010440	777777	DATA	-1
010441	120613	DATA	0120613 P
010442	777777	DATA	-1
010443	121214	DATA	0121214 PH
010444	777777	DATA	-1
010445	120215	DATA	0120215 BC02
010446	777777	DATA	-1
010447	120216	DATA	0120216 802
010450	777777	DATA	-1
010451	120217	DATA	0120217 G
010452	777777	DATA	-1
010453	120620	DATA	0120620 AST
010454	777777	DATA	-1
010455	120221	DATA	0120221 PF
010456	777777	DATA	-1
010457	120222	DATA	0120222 SK
010460	777777	DATA	-1
010461	120223	DATA	0120223 TRT
010462	777777	DATA	-1
010463	120224	DATA	0120224 UR
010464	777777	DATA	-1
010465	000000	DATA	0
	000000	END	

LITERALS

POINTERS
000700 110233

SYMBOLS

1	C10431	R	CUTB
1	C10353	R	DTBL
1	C10300	R	PTBL
1	C10260	R	HPTS
1	C10256	R	TIME
1	C10255	R	OCT
1	C10254	R	PMSK
1	C10253	R	DMSK
1	C10252	R	SOT

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* INBLMS NUMERICAL DATA ENTRY

VITAL SIGNS

000100	ONE	,EQU	,0100
000101	TWO	,EQU	,0101
000105	SIX	,EQU	,0105
000106	SVN	,EQU	,0106
000107	ATE	,EQU	,0107
000110	NINE	,EQU	,0110
000224	PDR	,EQU	,0224
000237	PADA	,EQU	,0237
000222	PDAD	,EQU	,0322
000236	TERM	,EQU	,0236
000306	ASTR	,EQU	,0306
000323	DGAD	,EQU	,0323
000213	SENC	,EQU	,0213
000214	CENC	,EQU	,0214
000310	HOUR	,EQU	,0310
000222	BOUT	,EQU	,0222
000207	DEC8	,EQU	,0207
000134	MSKE	,EQU	,0134
000315	DSF1	,EQU	,0315
000112	M1	,EQU	,0112
000212	ENRT	,EQU	,0212
000203	SDEL	,EQU	,0203
000205	TDEL	,EQU	,0205
000223	TWIN	,EQU	,0223
000700	IAOR	,PBEGIN	,0700

010000		,CRG	,010000
--------	--	------	---------

010000	005000	,NDEN	,NOP
--------	--------	-------	------

010001	014227		,LDA
--------	--------	--	------

010002	050322		,STA
--------	--------	--	------

010003	014226		,LDA
--------	--------	--	------

010004	050323		,STA
--------	--------	--	------

010005	010105		,LDA
--------	--------	--	------

010006	002000		,JMPM*
--------	--------	--	--------

010007	100213		,SENC
--------	--------	--	-------

010010	010067 R		,PZE
--------	----------	--	------

010011	010106		,LDA
--------	--------	--	------

010012	002000		,JMPM*
--------	--------	--	--------

010013	100213		,SENC
--------	--------	--	-------

010014	010154 R		,PZE
--------	----------	--	------

010015	010107		,LDA
--------	--------	--	------

010016	002000		,JMPM*
--------	--------	--	--------

010017	100213		,SENC
--------	--------	--	-------

010020	010113 R		,PZE
--------	----------	--	------

010021	010110		,LDA
--------	--------	--	------

010022	002000		,JMPM*
--------	--------	--	--------

010023	100213		,SENC
--------	--------	--	-------

010024	010127 R		,PZE
--------	----------	--	------

010025	002000		,JMPM*
--------	--------	--	--------

010026	100223		,TWIN
--------	--------	--	-------

010027	000306		,PZE
--------	--------	--	------

010030	014227		,LDA
--------	--------	--	------

SET TABLE ADDRESSES

SET ENCODER ADDRESSES

ENTER

PRINT

CLEAR

RECORD

PRINT HEADING

PAGE 070002

010031	002000	*JMPM*	*PRDR
010032	100224		
010033	010261 R	*PZE	*HDTB+1
010034	002000	*JMPM*	*PADA PRINT ASTRO ID, DAY
010035	100237		
010036	010310	*LDA	*HOUR PRINT TIME
010037	054217	*STA	*TIME+1
010040	010100	*LDA	*ONE
010041	002000	*JMPM*	*DOUT
010042	100222		
010043	010256 R	*PZE	*TIME
010044	017700 I NA	*LDA*	*OUT ASSIGN ID TO DSP1
010045	001010	*JAZ	*NF
010046	010144 R		
010047	150134	*ANA	*MSKE
010050	050515	*STA	*DSP1
010051	014161	*LDA	*OUT
010052	054003	*STA	**+4
010053	010100	*LDA	*ONE
010054	002000	*JMPM*	*DOUT
010055	100222		
010056	000000	*PZE	*0 CURRENT OUT ADDRESS
010057	014164	*LDA	*FTM
010060	001010	*JAZ	**+4
010061	010064 R		
010062	001000	*JMP*	*TDEL
010063	100205		
010064	044157	*INR	*FTM
010065	001000	*JMP*	*ENRT
010066	100212		

*

* ENTER SWITCH ENTRY

010067	044143 NB	*INR	*OUT
010070	002000	*JMPM*	*TWIN
010071	100223		
010072	010236 R	*PZE	*TWD
010073	014146	*LDA	*TWD+4 COMBINE TEST VALUE DIGITS
010074	005002	*T2B	
010075	004454	*LLRL	*12
010076	124142	*ADD	*TWD+3
010077	002000	*JMPM*	*DEC8 CONVERT TO BINARY
010100	100207		
010101	057700 I	*STA*	*OUT
010102	014133	*LDA	*OUT DISPLAY VALUE
010103	140100	*SUB	*ONE
010104	054003	*STA	**+4
010105	010100	*LDA	*ONE
010106	002000	*JMPM*	*DOUT
010107	100222		
010110	000000	*PZE	*0 DISPLAY ADDRESS
010111	001000	*JMP*	*ENRT AWAIT SWITCH ACTION
010112	100212		

*

* CLEAR SWITCH ENTRY

*						
010113	010112	NC	LDA	M1	SET NO DATA WORD	
010114	057700	I	STA*	OUT		
010115	014115		LDA	OUT	RESET ADDRESS	
010116	140100		SUB	ONE		
010117	054113		STA	OUT		
010120	054007		STA	*+4		
010121	010100		LDA	ONE	CLEAR DISPLAY	
010122	002000		JMPM*	DOUT		
010123	100222					
010124	000000		PZE	0		
010125	001000		JMP*	ENRT		
010126	100212					

*

* RECORD SWITCH ENTRY

*					
010127	044103	ND	INR	OUT	
010130	014117		LDA	AON	TURN ON DATA ACCEPTED
010131	103160		CAR	060	
010132	002000		JMPM*	SDEL	SET .7 SEC DELAY
010133	100203				
010134	100007		PDATA	,0100007	
010135	010140	R	PZE	NE	
010136	001000		JMP*	ENRT	
010137	100212				

*

* TIME DELAY ENTRY

*					
010140	014110	NE	LDA	AOF	TURN OFF DATA ACCEPT
010141	103160		CAR	060	
010142	001000		JMP	NA	
010143	010044	R			

*

* OUTPUT END TO DIGITAL DISPLAY

* AWAIT PRINT SWITCH

*

010144	014102	NF	LDA	ENO	
010145	050315		STA	DSP1	
010146	010100		LDA	ONE	
010147	002000		JMPM*	DOUT	
010150	100222				
010151	010245	R	PZE	EMS	
010152	001000		JMP*	ENRT	
010153	100212				

*

* PRINT SWITCH ENTRY

*

010154	014075	NG	LDA	SOT	TURN OFF DISPLAY BIT
010155	054055		STA	OUT	
010156	017700	I NH	LDA*	OUT	
010157	001010		JAZ	NK	
010160	010171	R	ANA	DMSK	
010161	154071				

010162	057700	I		*STA*	*OUT	
010163	014047			*LDA	*OUT	
010164	120101			*ADD	*TWO	
010165	054045			*STA	*OUT	
010166	044066			*INR	*OCT	
010167	001000			*JMP	*NH	
010170	010176	R				
010171	014060	NK		*LDA	*SOT	TURN ON PRINT BIT
010172	054040			*STA	*OUT	
010173	017700	I	NL	*LDA*	*OUT	
010174	001010			*JAZ	*NM	
010175	010205	R				
010176	114055			*ORA	*PMSK	
010177	057700	I		*STA*	*OUT	
010200	014032			*LDA	*OUT	
010201	120101			*ADD	*TWO	
010202	054030			*STA	*OUT	
010203	001000			*JMP	*NL	
010204	010173	R				
010205	014047	NM		*LDA	*OCT	OUTPUT TO PRINTER
010206	002000			*JMPM*	*DCUT	
010207	100222					
010210	010451	R		*P7E	*OUTE	
010211	010105			*LDA	*SIX	RESET ENCODER
010212	002000			*JMPM*	*CENC	
010213	100214					
010214	010106			*LDA	*SVN	
010215	002000			*JMPM*	*CENC	
010216	100214					
010217	010107			*LDA	*ATE	
010220	002000			*JMPM*	*CENC	
010221	100214					
010222	010110			*LDA	*NINE	
010223	002000			*JMPM*	*CENC	
010224	100214					
010225	002000			*JMPM*	*TERM	
010226	100236					
010227	001000			*JMP*	*ENRT	
010230	100212					
*						
*	NDEN CONSTANTS	STORAGE				
*						
010231	010270	R	PAD	*P7E	*PTBL	PRINTER HEADING ADDRESS
010232	010357	R	BAD	*P7E	*DTBL	DIGITAL HEADING ADDRESS
010233	010451	R	OUT	*P7E	*OUTB	OUTPUT TABLE ADDRESS
010234	020377		END	*DATA	\$020377	
010235	777777			*DATA	*1	
010236		TND		*BSS	*5	THUMBWHEEL INPUT
010243		TA		*BSS	*1	TEMPORARY
010244	000000		FTM	*DATA	*0	FIRST TIME INDICATOR
010245	020377		EMS	*DATA	\$020377	
010246	777777			*DATA	*1	
010247	000377		ENO	*DATA	\$255	END MSG. ID
010250	106401		AON	*DATA	\$0106401	ACCEPT LIGHT ON

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010251	106400	ACF	*DATA	,0106400	ACCEPT LIGHT OFF
010252	010451 R	SOT	*PZE	,OUTP	RESTORE OUT
010253	157777	DMSK	*DATA	,0157777	DISPLAY MASK
010254	010000	FMSK	*DATA	,010000	PRINT MASK
010255	000000	CCT	*DATA	,0	OUTPUT COUNT
010256	050000	TIME	*DATA	,050000	TIME OUTPUT
010257	000000		*DATA	,0	

* NDE VITAL SIGNS

*					
010260	000006	HOTS	*DATA	,6	
010261	153311		*DATA	,*VITAL SIGNS*	
010262	152301				
010263	143240				
010264	151711				
010265	143716				
010266	151640				
010267	000000		*DATA	,0	
010270	000225	PTBL	*DATA	,149	PRINTER IDOS
010271	144322		*DATA	,*HR	
010272	120240				
010273	000226		*DATA	,150	
010274	151322		*DATA	,*RR	
010275	120240				
010276	000227		*DATA	,151	
010277	141324		*DATA	,*BT	
010300	120240				
010301	000230		*DATA	,152	
010302	151720		*DATA	,*SP	
010303	120240				
010304	000231		*DATA	,153	
010305	142320		*DATA	,*DP	
010306	120240				
010307	000232		*DATA	,154	
010310	146640		*DATA	,*M	
010311	120240				
010312	000233		*DATA	,155	
010313	141701		*DATA	,*CAL	
010314	146240				
010315	000234		*DATA	,156	
010316	143311		*DATA	,*FI	
010317	120240				
010320	000235		*DATA	,157	
010321	153317		*DATA	,*VOL	
010322	146240				
010323	000236		*DATA	,158	
010324	151720		*DATA	,*SPG	
010325	143640				
010326	000237		*DATA	,159	
010327	150310		*DATA	,*PH	
010330	120240				
010331	000240		*DATA	,160	
010332	150322		*DATA	,*PRO	
010333	147640				
010334	000241		*DATA	,161	

P1000 000000

010335	145505	,DATA	,*FEC*
010336	141640	,DATA	,162
010337	000242	,DATA	,*SL*
010340	151714	,DATA	,*DI*
010341	120240	,DATA	,163
010342	000243	,DATA	,*EL*
010343	142311	,DATA	,164
010344	120240	,DATA	,165
010345	000244	,DATA	,*PA*
010346	142714	,DATA	,166
010347	120240	,DATA	,*FA*
010350	000245	,DATA	,0
010351	150301	DTBL	,149 HR
010352	120240	,DATA	,0402
010353	000246	,DATA	,017437
010354	143501	,DATA	,150 RR
010355	120240	,DATA	,01002
010356	000000	,DATA	,017437
010357	000225	,DATA	,151 BT
010360	000402	,DATA	,012400
010361	017437	,DATA	,017437
010362	000226	,DATA	,02404 SP
010363	001002	,DATA	,017437
010364	017437	,DATA	,152 DP
010365	000227	,DATA	,010004
010366	012400	,DATA	,017437
010367	017437	,DATA	,153
010370	000230	,DATA	,012037 M
010371	002404	,DATA	,017437
010372	017437	,DATA	,154 CAL
010373	000231	,DATA	,04415
010374	010004	,DATA	,03037 FI
010375	017437	,DATA	,155
010376	000232	,DATA	,011023 VOL
010377	012037	,DATA	,017437 SPG
010400	017437	,DATA	,156
010401	000233	,DATA	,017405
010402	004415	,DATA	,02022 PH
010403	003037	,DATA	,159 PRO
010404	000234	,DATA	,02001
010405	011023	,DATA	,017437
010406	017437	,DATA	,160
010407	000235	,DATA	,02002
010410	007010	,DATA	,04037
010411	003037	,DATA	,158
010412	000236	,DATA	,03037
010413	017405	,DATA	,159
010414	002022	,DATA	,02001
010415	000237	,DATA	,017437
010416	002001	,DATA	,160
010417	017437	,DATA	,02002
010420	000240	,DATA	,04037
010421	002002	,DATA	
010422	004037	,DATA	

010423	000241	DATA	s161	FEC
010424	011017	DATA	s011017	
010425	004437	DATA	s04437	
010426	000242	DATA	s162	SL
010427	002406	DATA	s02406	
010430	017437	DATA	s017437	
010431	000243	DATA	s163	DI
010432	010023	DATA	s010023	
010433	017437	DATA	s017437	
010434	000244	DATA	s164	EL
010435	007406	DATA	s07406	
010436	017437	DATA	s017437	
010437	000245	DATA	s165	PA
010440	0002015	DATA	s02015	
010441	017437	DATA	s017437	
010442	000246	DATA	s166	FA
010443	011015	DATA	s011015	
010444	017437	DATA	s017437	
010445	000377	DATA	s255	END
010446	007403	DATA	s07403	
010447	011437	DATA	s011437	
010450	000060	DATA	s0	
010451	120225	OUTB	s0120225	HR
010452	777777	DATA	s-1	
010453	120226	DATA	s0120226	RR
010454	777777	DATA	s-1	
010455	120627	DATA	s0120627	BT
010456	777777	DATA	s-1	
010457	120230	DATA	s0120230	SP
010458	777777	DATA	s-1	
010461	120231	DATA	s0120231	DP
010462	777777	DATA	s-1	
010463	120632	DATA	s0120632	M
010464	777777	DATA	s-1	
010465	120233	DATA	s0120233	CAL
010466	777777	DATA	s-1	
010467	120234	DATA	s0120234	FI
010470	777777	DATA	s-1	
010471	120235	DATA	s0120235	VOL
010472	777777	DATA	s-1	
010473	121636	DATA	s0121636	SPG
010474	777777	DATA	s-1	
010475	120637	DATA	s0120637	PH
010476	777777	DATA	s-1	
010477	120240	DATA	s0120240	PRO
010500	777777	DATA	s-1	
010501	120241	DATA	s0120241	FEC
010502	777777	DATA	s-1	
010503	120242	DATA	s0120242	SL
010504	777777	DATA	s-1	
010505	120243	DATA	s0120243	DI
010506	777777	DATA	s-1	
010507	120244	DATA	s0120244	EL
010510	777777	DATA	s-1	

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010511	120245	,DATA	,0120245	PA
010512	777777	,DATA	,=1	
010513	120246	,DATA	,0120246	FA
010514	777777	,DATA	,=1	
010515	000000	,DATA	,0	
	000000	,END	,	

LITERALS

POINTERS

000700 110233

SYMBOLS

1	C10451	R	OUTB
1	C10357	R	UTBL
1	L10270	R	PTBL
1	C10260	R	HDTB
1	C10255	R	TIME
1	C10255	R	OCT
1	C10254	R	PMSK
1	L10253	R	DMSK
1	C10252	R	SOT
1	C10251	R	ACF
1	C10250	R	AON
1	C10247	R	ENO
1	L10245	R	EMS
1	C10244	R	FTM
0	C10243	R	TA
1	C10236	R	TWD
1	C10234	R	END
1	C10233	R	OUT
1	C10232	R	DAD
1	C10231	R	PAD
1	L10205	R	NM
1	C10173	R	NL
1	C10171	R	NK
1	C10156	R	NH
1	C10154	R	NG
1	C10144	R	NF
1	C10140	R	NE
1	C10127	R	ND
1	C10113	R	NC
1	C10067	R	NB
1	C10044	R	NA
1	C10000	R	NDEN
1	C00223		TWIN
1	C00205		TBEL
1	C00203		STBL
1	C00212		ENRT
1	C00112		M1
1	C00315		DSP1
1	L00134		MSKE

SECTION III-C

IMBLMS FUNCTIONAL BREADBOARD
PERFORMANCE/DESIGN
REQUIREMENTS

CLINICAL EVALUATION

CLINICAL EVALUATION

1.0 INTRODUCTION

2.0 APPLICABLE DOCUMENTS

3.0 TECHNICAL REQUIREMENTS

3.1 Performance

3.1.1 Functional

3.1.1.1 Overall System Requirements

3.1.1.2 Questionnaire Organization

3.1.1.3 Data Entry and Retrieval

3.1.2 Operability

3.2 Interface Requirements

3.2.1 Physician-Subject Interface

3.2.2 Data Management Interface

3.3 Design and Construction

3.3.1 Mechanical

3.3.2 Displays and Controls

APPENDIX

1.0 INTRODUCTION

This document establishes the overall performance and design requirements for the Clinical Evaluation Subsystem. All the clinical Evaluations for each of the NASA designated measurement groups have been combined in a single medical history and physical questionnaire. The information will be coded so that it can be entered into the Data Management System via the Numerical Data Entry Keyboard.

2.0 APPLICABLE DOCUMENTS

Section III-A System Requirements Document contains all the applicable documents.

3.0 TECHNICAL REQUIREMENTS

3.1 Performance

3.1.1 Functional. -

3.1.1.1 Overall System Requirements. - The clinical evaluation questionnaire will provide an across-the-board evaluation of the mental as well as the physical status of the crew members. Emphasis will be placed on the particular phenomena which are considered spaceflight specific or which may occur during prolonged flights. Many abnormal or disease states, the probability of whose occurrence in healthy subjects is unlikely will not be evaluated in the questionnaire. Should it become necessary to include additional remarks or observations particularly in relationship to the effects of trauma, the on-board physician will record these on a voice channel for direct or delayed transmission to ground control.

Measurements of vital signs perse, which are taken very frequently as part of the routine monitoring using other IMBLES measurement equipment will not be included, although these can be verified manually whenever considered necessary, using the equipment contained in the physician's flight kit.

3.1.1.2 Questionnaire Organization. - The history and physical questionnaire will be combined in one form with a logical progression from general to more specific information consistent with the classical physician's review of body systems. Such an arrangement will facilitate the entry of only pertinent data similar to a physician's progress note.

3.1.1.3 Data Entry and Retrieval. - The questionnaire must be present to the physician in a manner to facilitate the "checkoff" of positive finding with coded information available so that the data can be entered into the DMS. A five digit coding system will indicate the major category, a more specific category, a more precise location of the finding or complaint, its nature and its severity or frequency. The DMS must provide a permanent record which identifies both the narrative information and its code. This will markedly facilitate the subsequent entry of follow up data.

3.1.2 Operability.

Section III-A FBB System Requirements Document contains all the applicable Operability requirements.

3.2 Interface Requirements

The interface requirements of the Clinical Evaluation Subsystem involve the performance of a physical examination under weightlessness and the entry and retrieval of this questionnaire type data via the Data Management Subsystem.

3.2.1 Physician-Subject Interface.

The history and physical examination will be conducted concurrently requiring facilities that provide reasonable volume, privacy and quiet. Weightlessness may necessitate that both the physician and subject be positioned in some type of restraint devices so that a proper orientation can be maintained. A restraint device for the physician's flight kit may also be necessary. With proper training the physician would probably not need to refer to the questionnaire during the actual examination. Specific information that cannot be remembered can be entered into the memo recorder via the headset and mike for subsequent playback at the PBDM Station. The physician must refer to the questionnaire to obtain the proper code number to enter positive findings.

3.2.2 Data Management Interface.

The data obtained from the History and Physical Examination Questionnaire are entered into the Data Management System at the FBB in the following manner:

- The appropriate code is entered on the Processor keyboard to make the Numerical Data Entry Keyboard available to the DMS.
- The physician sets Astronaut Number, Mission Day, and Mission Time with the thumbwheel switches on the Numerical Data Entry Keyboard. The Organ System switch is set to 0, and the appropriate Test Number, identifying the History and Physical Examination, is entered at the Test No. switches.
- Starting with the first history and physical examinations entry, he sets the appropriate five digit code in the Test Value block. After visual verification, he pushes the "Enter" button.
- He proceeds in the same manner until all code numbers have been entered.
- The "Record" button is now activated, which will record all codes previously entered on tape.
- To obtain a printed copy the physician pushes the "Print" button on, and the line printer will print out the data that was recorded on the DMS tape.

3.3 Design and Construction

The scoring and marking of the questionnaire is based on a five digit system, as follows. The first digit represents one of the major categories:

- 0 General Status
- 1 Head and Neck
- 2 Eyes
- 3 Ears, Nose, and Throat
- 4 Lungs
- 5 Heart
- 6 Abdomen and Rectum
- 7 Genitourinary
- 8 Upper Extremities
- 9 Lower Extremities

The second digit indicates the major subdivision within each of these categories (Range 0-9). The third digit provides either a class of symptoms, or a more precise location of a finding or complaint. The following designations are used:

- 0 Entire area
- 1 Left Side
- 2 Right Side
- 3 Left and Right Side
- 4 Upper Half
- 5 Lower Half
- 6 Upper and Lower Half
- 7 Number (of tooth)

The fourth digit delineates the nature of the finding or complaint, or provides further details regarding the second or third digit(s). (Range 0-9). The fifth digit indicates the frequency or severity, or gives another descriptor, of the finding or complaint. A range of 0 through 4 was established, whereby 0 = None, 1 = Normal, and 2, 3 or 4 represents an increasing progression in severity or frequency, unless some other descriptor has been assigned to these numbers. Ordinarily all entries scored 0 or 1 simply will be deleted and will not be recorded and transmitted. However, ground control, in response to a periodic physical examination report received earlier, may request the on-board physician to check specific parameters, in which case the latter can positively reconfirm a "none" or "normal" finding.

Appendix III-C contains the complete History and Physical Examination Questionnaire. It should be noted that where applicable all possible or most likely used combinations of the first three digits have been indicated as a complete group. This reminds the physician that he has to make a selection of the appropriate third digit number before proceeding to the fourth and fifth digits. Each positive finding always consists of a complete five-digit number. For instance, to report moderate itching and severe lacrimation in both eyes, requires the sequential entry of codes 20363 and 20354.

3.3.1 Mechanical. -

The questionnaire contained in Appendix III-C will be presented in a logbook at the FEDM station so that the physician can enter the positive findings into the DMS in the proper code.

The hard copy results will be placed in the measurement data logbook.

3.3.2 Displays and Controls. -

Applicable display and control requirements are specified in Section III-J.

SECTION III-C

APPENDIX

MEDICAL HISTORY & PHYSICAL EXAMINATION QUESTIONNAIRE

The Medical History & Physical Examination Questionnaire has been arranged according to General Status and Body Elements. The scoring and marking of the questionnaire is based on a five digit system and is discussed in Section 3.3.

SECTION III-C

APPENDIX

MEDICAL HISTORY & PHYSICAL EXAMINATION QUESTIONNAIRE

The Medical History & Physical Examination Questionnaire has been arranged according to General Status and Body Elements. The scoring and marking of the questionnaire is based on a five digit system and is discussed in Section 3.3.

APPENDIX III-C

MEDICAL HISTORY & PHYSICAL EXAMINATION QUESTIONNAIRE

<u>GENERAL STATUS</u>		0	1	2	3	4
010 1	Feeling of well-being		normal	off	poor	ill
2	Alertness		normal	inattentive	depressed	comatose
3	Fatigue	none		slight	moderate	severe
4	Insomnia	none		slight	moderate	severe
5	Irritability	none		slight	moderate	severe
6	Tension	none		slight	moderate	severe
7	Boredom	none		slight	moderate	severe
8	Hostility to examiner	none		slight	moderate	severe
9	Delusions	none		slight	moderate	severe
0	Hallucinations	none		slight	moderate	severe
020 1	Sleep		normal	disturbed	inadequate	restless
2	Dreams	none	normal	pleasant	frightening	nightmares
030 1	Water intake		normal	reduced	poor	increased
2	Food intake		normal	reduced	poor	increased
3	Micturition	none	normal	reduced	poor	diuresis
4	Defecation	none	normal		2-5/24 hrs.	5/24 hrs
5	Libido	none	normal	increased	decreased	
6	Interpers. relations		normal	strained	friction	
7	Perspiration	none	normal	increased	decreased	argumentative

HEAD AND NECK

100 1	Headache	none	slight	moderate	severe
101 2	Itching	none	slight	moderate	severe
102 3	CVA	none			possible
103					

Scalp

111 1	Skin texture	normal	dry	oily	inflamed
112 2	Hair texture	normal	dry	oily	
113					

Face

121 1	Skin forehead	normal	dry	oily	
122 2	Facial muscles	normal	weak	hyperactive	paralyzed
123 3	Lip movement	normal	lag	droop	paralyzed
4	Facial color	normal	pale	cyanotic	florid
5	Parotid gland tenderness	none	slight	moderate	severe
6	Submax. gland tenderness	none	slight	moderate	severe
7	Pain	none	slight	moderate	severe

HEAD AND NECK (continued)

0

2

Neck

131 1 Skin color		normal	pale	pigmented	red
132 2 Muscle tenderness	none		slight	moderate	severe
133 3 Muscle spasm	none		slight	moderate	severe
4 Stiffness	none		slight	moderate	severe
5 Folliculitis	none		slight	moderate	severe
6 Lymphadenopathy	none		slight	moderate	severe
7 Thyroid enlargement	none		slight	moderate	severe
8 Pain	none		slight	moderate	severe
9 External swelling	none		slight	moderate	severe

EYES

201 1 Photophobia	none		slight	moderate	severe
202 2 Diplopia	none		slight	moderate	severe
203 3 Blurred vision	none		slight	moderate	severe
4 Halo around lights	none		slight	moderate	severe
5 Lacrimation	none		slight	moderate	severe
6 Itching	none		slight	moderate	severe
7 Gritty feeling	none		slight	moderate	severe
8 Blurring	none		slight	moderate	severe
9 Pain	none		slight	moderate	severe

Eyelids

211 1 Ptosis	none		slight	moderate	severe
212 2 Lid lag	none		slight	moderate	severe
213 3 Blepharitis	none		slight	moderate	severe
4 Sty/chalazion	none		slight	moderate	severe
5 Laceration	none		slight	moderate	severe
6 Lachrymal duct swelling	none		slight	moderate	severe

Conjunctiva

221 1 Injected	none		slight	moderate	severe
222 2 Conjunctivitis Lateral	none		slight	moderate	severe
223 3 Conjunctivitis Nasal	none		slight	moderate	severe
4 Conjunctivitis Limbal	none		slight	moderate	severe
5 Foreign body	none		slight	moderate	severe
6 Chemosis	none		slight	moderate	severe
7 Petechiae	none		slight	moderate	severe
8 Hemorrhage.	none		slight	moderate	severe

Sclera

231 1 Petechiae	none		slight	moderate	severe
232 2 Hemorrhage	none		slight	moderate	severe
233 3 Icterus	none		slight	moderate	severe

Ocular Tension

241 1 Palpation	normal	soft	increased	hard
242 2 Tonometry				
243				

EYES (continued)

Eye Movements

251 1 Rectus weakness	none	slight	moderate	severe
252 2 Oblique weakness	none	slight	moderate	severe
253				

Cornea

261 1 Keratitis	none	slight	moderate	severe
262 2 Opacity	none	slight	moderate	severe
263 3 Pain	none	slight	moderate	severe
4 Foreign body	none	slight	moderate	severe
5 Abrasion/Ulcer	none.	slight	moderate	severe

Anterior Chamber

271 1 Depth	normal		shallow	obliterated
272 2 Hypopion	none			present
273				

Iris

281 1 Pupil size	normal	constricted	dilated	
282 2 Pupil shape	normal	slightly	irregular	grossly distorted
283		irregular		
3 Reaction to light	normal		sluggish	no reaction
4 Accomodation	normal		sluggish	no reaction
5 Iritis	none	possible	moderate	severe

Fundus

291 1 Color	normal	pale		
292 2 Arteries	normal	narrow	thickened	
293 3 Veins	normal	distended	distended	
			& nicking	
4 Hemorrhage	none	slight	moderate	severe
5 Exudates	none	slight	moderate	severe
6 Detachment	none			present
7 Discs	normal		cupping	edema

EARS, NOSE AND THROAT

Ears

301 1 Itch	none	slight	moderate	severe
302 2 Pain	none	slight	moderate	severe
303 3 Discharge	none	slight	moderate	severe
4 External otitis	none	slight	moderate	severe
5 Dizziness	none	slight	moderate	severe
6 Disorientation	none	slight	moderate	severe
7 Vertigo	none	slight	moderate	severe
8 Tinnitus	none	slight	moderate	severe
9 Deafness	none	slight	moderate	severe

EARS, NOSE AND THROAT (cont'd)

External Ear					
311 1 Auricle		normal			inflamed
312 2 Canal		normal	dry	weeping	suppurative
313 3 Wax	none	normal	slight	moderate	occurred
Eardrum					
321 1 Color		normal	dull	injected	fiery red
322 2 Reflex		absent	normal	enhanced	
323 3 Fluid		none		moderate	bulging
4 Perforation		none			present
Nose-Nostrils					
330 1 Coryza	none		slight	moderate	severe
331 2 Sneezing	none		slight	moderate	severe
332 3 Epistaxis	none		slight	moderate	severe
333 4 Obstruction nares	none		slight	moderate	severe
5 Frontal sinus pain	none		slight	moderate	severe
6 Max. sinus pain	none		slight	moderate	severe
7 "Cold"	none		slight	moderate	severe
8 Mucosa		normal	pale	injected	red
9 Discharge	none		slight	moderate	severe
0 Discharge color	none		clear	white	suppurative
Lips					
344 1 Color		normal	pale	cyanotic	
345 2 Herpes simplex	none				present
346 3 Cheilitis	none		slight	moderate	severe
Tongue					
350 1 Color		normal	pale	cyanotic	
2 Coating	none		slight	moderate	beefy red thick
Teeth					
360 1 Toothache	none		slight	moderate	severe
2 Caries	none		slight	moderate	severe
3 Calculus	none		slight	moderate	severe
Tooth Designation					
367	01-32	standard numbering system			
Gingiva					
374 1 Color		normal	pale	cyanotic	
375 2 Bleeding	none		slight	moderate	severe
376 3 Ulceration	none		slight	moderate	extensive

EARS, NOSE AND THROAT (cont'd)

		0	1	2	3	4
Pharynx						
381 1 Sore throat	none		slight	moderate	severe	
382 2 Color of mucosa		normal	pale	cyanotic	buffy red	
383 3 Swelling	none		slight	moderate	severe	

Tonsils

391 1 Swelling	none		slight	moderate	severe
392 2 Inflammation	none		slight	moderate	severe

LUNGS-THORAX

Thorax

411 1 Cough	none		slight	moderate	severe
412 2 Chest pain	none		slight	moderate	severe
413 3 Rib tenderness	none		slight	moderate	severe
4 4 Tenderness over spine	none		slight	moderate	severe
5 Muscle tenderness (long spinal)	none		slight	moderate	severe

Respiration

420 1 Dyspnea	none		slight	moderate	severe
2 Rest position			inspiratory	mid-position	expiratory
3 Movement with deep breath		normal		slightly impaired	
4 Accessory respiratory muscles	not used			used only with deep breath or constantly exercise	

Lungs

450 1 Diaphragm movement		moves		Minimal movement	Impaired or no movement
451		normally		increased	impaired
452 2 Fremitus		normal		dull	flat
453 3 Percussion		resonant	hyper-resonant		
454					
455 4 Breath sounds	absent	normal		decreased	increased
456 5 Voice sounds	absent	normal		decreased	increased
6 Wheezes		none			present
7 Rales		none	slight	moderate	severe
8 Friction rub		none			present
9 Adventitious sounds		none			present

HEART

500 1 Dizziness	none		slight	moderate	severe
2 Palpitation	none		slight	moderate	severe
3 Extrasystoles	none		only exercise	infrequent	frequent
4 Skipped beats	none		w. exercise	infrequent	frequent
5 Decreased work capacity	no		only	moderate	severe
6 "Choking"	no		single episode	periodic	frequent
7 Syncope	no		single episode	multiple episodes	frequent or very prolonged

HEART (continued)

0 2 3 4

500 8	Anginal pain	no			present
9	Persistent arrhythmias	no			present

Inspection

510 1	PMI	normal			displaced
511 2	Pulsations	normal	decreased	increased	heaving
512					

Palpation

520 1	PMI	normal			displaced
521 2	Thrill	none			present
522					

Percussion

530 1	Mediastinal dullness	normal width	increased	decreased	
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Heart Sounds

540 1	Intensity	normal	faint	loud	
2	PI vs AI		PI greater	AI greater	equal
3	Split 1st sound	none			present
4	Split 2nd sound	none			present

Systolic Murmurs

550 1	Apex	none	soft blowing	moderate	loud, harsh
2	Base	none	soft blowing	moderate	loud, harsh
3	Transmission	none	upward	downward	left

Diastolic Murmurs

560 1	Apex	none	soft blowing	moderate	loud, harsh
2	Base	none	soft blowing	moderate	loud, harsh
3	Transmission	none	upward	downward	left

Friction Rub

570 1	Apex	none			present
2	Base	none			present

ABDOMEN

600 1	Nausea	none	slight	moderate	severe
2	Vomiting	none	slight	moderate	severe
3	Cramps	none	slight	moderate	severe
4	Pain	none	slight	moderate	severe
5	Distention	none	slight	moderate	severe
6	Diarrhea	none	slight	moderate	severe

ABDOMEN (continued)

0

3

Upper Quadrants					
601 1 Peristalsis		normal	slight	moderate	severe
602 2 Tenderness	none		slight	moderate	severe
603 3 Point tenderness	none		slight	moderate	severe
4 Muscle rigidity	none		slight	moderate	severe
Lower Quadrants					
611 1 Peristalsis		normal	slight	moderate	severe
612 2 Tenderness	none		slight	moderate	severe
613 3 Point tenderness	none		slight	moderate	severe
4 Muscle rigidity	none		slight	moderate	severe
Liver					
620 1 Dullness		normal		diminished	increased
2 Edge	not palpable		sharp	diffuse	tender
3 Tenderness	none		slight	moderate	severe
4 Icterus	none		slight	moderate	severe
Spleen					
630 1 Dullness		normal		diminished	increased
2 Size	not palpable		Palpable on deep breath	moderately enlarged	enlarged
3 Tenderness	none		slight	moderate	severe
Mass					
641 1 Size			<5 cm.	5-10 cm.	>10 cm.
642 2 Mobility			fixed	slight	free
643 3 Pulsation	none		slight	moderate	strong
644 4 Tenderness	none		slight	moderate	severe
645					
646					
Hernia					
651 1 Type		umbilical	inguinal	femoral	ventral
652 2 Size			small	moderate size	large
3 Reducibility				reducible	not reducible
4 Pain	none		slight	moderate	severe
5 Incarcerated bowel	no				yes
Muscles					
661 1 Muscle weakness	none		slight	moderate	severe
662 2 Reflexes	absent normal			weak	hyperactive
663					
664					
665					
666					
Vessels					
670 1 Aortic pulse	normal		increased	decreased	
2 Femoral pulse	normal		increased	decreased	

ABDOMEN (continued)

C

3

Anus

680 1	Pruritis	none	slight	moderate	severe
2	Tenderness	none	slight	moderate	severe
3	Swelling	none	slight	moderate	severe
4	Pain	none	slight	moderate	severe
5	Inflammation perirectal	none	slight	moderate	severe
6	Ext. hemorrhoid	none	12-3 o'clock	3-6	6-9
7	Thrombosed hemorrhoid	none	12-3	3-6	6-9
8	Bleeding hemorrhoid	none	12-3	3-6	6-9
9	Anal fistula	none	12-3	3-6	6-9

Rectum

690 1	Sphincter tone	normal	relaxed		
691 2	Prostate size	normal	small	enlarged	greatly enlarged
692 3	Prostatic mass	none	small	moderate	large
4	Prostate tenderness	none	slight	moderate	severe
5	Rectal mass	none	small	moderate	large
6	Rectal tenderness	none	slight	moderate	severe
7	Feces color	normal	light	grey	black
8	Rectal bleeding	none	slight	moderate	severe

GENITOURINARY

700 1	Dysuria	none	slight	moderate	severe
2	Hematuria	none	slight	moderate	severe

Lymph Nodes

711 1	Enlargement	normal	slight	moderate	severe
712 2	Tenderness	none	slight	moderate	severe
713 3	Character			discrete	matted
4	Redness	none	slight	moderate	severe
	Inflammation				

Penis

720 1	Phimosis	none	slight	moderate	severe
2	Edema	none	slight	moderate	severe
3	Lesion-glans	none			present
4	Lesion-meatus	none			present
5	Discharge	none	slight	moderate	severe
6	Pain	none	slight	moderate	severe

Testis

731 1	Pain	none	slight	moderate	severe
732 2	Tenderness	none	slight	moderate	severe
733 3	Atrophy	none	slight	moderate	severe
4	Enlargement	none	slight	moderate	severe
5	Hydrocele	none	slight	moderate	severe

GENERAL INQUIRY (continued)

Epididymis					
741 1 Swelling	none		slight	moderate	severe
742 2 Tenderness	none		slight	moderate	severe
743					
Spermatic Cord					
751 1 Varicocele	none		slight	moderate	severe
752 2 Tenderness	none		slight	moderate	severe
753					
Kidneys					
761 1 Pain	none		slight	moderate	severe
762 2 Tenderness	none		slight	moderate	severe
763					
Bladder					
770 1 Frequency of micturition		normal			
2 Dull pain	none		slight	moderate	severe
3 Sharp localized pain	none		slight	moderate	severe
4 Tenderness	none		slight	moderate	severe
5 Burning on micturition	none		slight	moderate	severe

UPPER EXTREMITIES

*	Hand				
811 1 Skin temperature		warm	cool	moist hot	dry hot
812 2 Edema	none		slight	moderate	severe
* Dorsum L Hand					
813 3 Tenderness	none		slight	moderate	severe
* Dorsum R Hand					
814 4 Pain	none		slight	moderate	severe
* Palm L Hand					
815 5 Localized Swelling		thenar	hypothenar	ulnar	radial
* Palm R Hand					
816 6 Localized inflammation		thenar	hypothenar	ulnar	radial
7 Grip	normal		decreased	weak	very weak
8 Metacarpal fracture	none			single	multiple
9 Laceration	none		small	moderate	extensive

Digits

(Odd numbers left hand)

(Even numbers right hand)

*	Thumb				
821 1 Nail color		normal	pale	cyanotic	red
822					
*	Index finger				
823 2 Subungual infection	none				present
824 3 Foreign body	none				present
*	Middle finger				
825 4 Paronychia	none				present
826					

* NOTE: Any one of the fourth unit descriptors can apply to any 3-digit group.

UPPER EXTREMITY(IES) (continued)

3

*	Ring finger					
827	5 Pain	none	slight	moderate	severe	
828	6 Swelling	none	slight	moderate	severe	
*	Little finger					
829	7 Inflammation	none	slight	moderate	severe	
830	8 Weakness	none	slight	moderate	severe	
9	Fracture	none		single	multiple	
0	Laceration	none	small	moderate	extensive	
	Wrist					
841	1 Range of motion	normal		restricted	unable to move	
842						
843	2 Weakness	none	slight	moderate	severe	
3	Joint pain	none	slight	moderate	severe	
4	Fracture	none		present		
5	Laceration	none	small	moderate	extensive	
	Forearm					
851	1 Flexors weakness	none	slight	moderate	severe	
852	2 Extensors weakness	none	slight	moderate	severe	
853	3 Pronators weakness	none	slight	moderate	severe	
4	Supinators weakness	none	slight	moderate	severe	
5	Pain	none	slight	moderate	severe	
6	Tenderness	none	slight	moderate	severe	
7	Swelling	none	slight	moderate	severe	
8	Carpopedal spasm	none	slight	moderate	severe	
9	Fracture	none	ulna	radius	multiple/compound	
0	Laceration	none	small	moderate	extensive	
	Elbow					
861	1 Motion	normal		restricted	unable to move	
862	2 Tenderness radial head	none	slight	moderate	severe	
863	3 Swelling	none	slight	moderate	severe	
4	Pain	none	slight	moderate	severe	
5	Bursitis	none	slight	moderate	severe	
6	Fracture	none		present		
7	Laceration	none	small	moderate	extensive	
	Upper Arm					
871	1 Weakness of flexors	none	slight	moderate	severe	
872	2 Weakness of extensors	none	slight	moderate	severe	
873	3 Fracture	none		present	compound	
4	Laceration	none	small	moderate	extensive	
	Shoulder					
881	1 Range of abduction	normal		restricted	unable to move	
882	2 Range of rotation	normal		restricted	unable to move	
883	3 Deltoid weakness	none	slight	moderate	severe	
4	Adductors weakness	none	slight	moderate	severe	
5	Abductors weakness	none	slight	moderate	severe	
6	Bursitis	none	slight	moderate	severe	
7	Clavicle fracture	none		present		
8	Laceration	none	small	moderate	extensive	
9	Dislocation	none		reduced	present	

* NOTE: Any one of the fourth unit descriptors can apply to any 3-digit group.

Axilla

891 1 Lymph node swelling	none		slight	moderate	severe
892 2 Lymphangitis	none		slight	moderate	severe
893 3 Folliculitis	none		slight	moderate	severe

LOWER EXTREMITY

Foot

* 911 1 Edema	none		slight	moderate	severe
912 2 Skin Temp.		normal	cool	moist & hot	dry & hot
* 913 3 Tenderness	none		slight	moderate	severe
* 914 4 Dorsalis pedis pulse		normal	absent	weak	
* 917 5 Pain	none		slight	moderate	severe
* 918 6 Localized swelling	none		slight	moderate	severe
7 Localized inflammation	none		slight	moderate	severe
8 Nail color	normal		pale	cyanotic	
9 Tinea pedis	none		slight	moderate	severe
0 Fracture	none			digit	metatarsal/heel

Lower Leg

921 1 Flexors weakness	none		slight	moderate	severe
922 2 Extensors weakness	none		slight	moderate	severe
923 3 Swelling	none		slight	moderate	severe
4 Tenderness	none		slight	moderate	severe
5 Pain	none		slight	moderate	severe
6 Varices	none		slight	moderate	severe
7 Phlebitis	none		slight	moderate	severe
8 Fracture	none		fibula	tibia	multiple/compound
9 Laceration	none		small	moderate	extensive

Knee

931 1 Range of motion		normal		restricted	unable to move
932 2 Pain	none		slight	moderate	severe
933 3 Fluid	none		slight	moderate	severe
4 Popliteal artery pulsation		normal			absent
5 Patellar fracture	none				present

Thigh

941 1 Quadriceps weakness	none		slight	moderate	severe
942 2 Hamstrings weakness	none		slight	moderate	severe
943 3 Sciatic n. tenderness	none		slight	moderate	severe
4 Fracture	none			present	compound
5 Laceration	none		small	moderate	extensive

Hip-Buttocks

951 1 Adductors weakness	none		slight	moderate	severe
952 2 Abductors weakness	none		slight	moderate	severe
953 3 Range of flexion		normal		restricted	unable to move
4 Range of rotation		normal		restricted	unable to move
5 Pain in hip	none		slight	moderate	severe
6 Dislocation	none			reduced	present

* NOTE: Any one of the fourth digit descriptors

5/5/90

* IMBLMS - MEDICAL STATUS INVENTORY

000127	MEM	sEQU	s0127		
000220	KYLT	sEQU	s0220		
000110	NINE	sEQU	s0110		
000105	SIX	sEQU	s0105		
000223	TWIN	sEQU	s0223		
000237	PADA	sEQU	s0237		
000130	MSKA	sEQU	s0130		
000100	CNE	sEQU	s0100		
000224	PRDR	sEQU	s0224		
000213	SENC	sEQU	s0213		
000212	ENRT	sEQU	s0212		
000326	EVRB	sEQU	s0326		
000207	DEC8	sEQU	s0207		
000104	FIVE	sEQU	s0104		
000221	FLSH	sEQU	s0221		
000103	FOUR	sEQU	s0103		
000110	TEN	sEQU	s0110		
 *					
010000		sORG	s010000		
000700	IAOR	sBEGIN	s0700		
010000	010110	sLDA	sNINE	OFF STANDBY	
010001	002000	sJMPM*	sKYLT		
010002	100220				
010003	010105	sLDA	sSIX	ON NUM DATA	
010004	006130	sERAI	s0100000		
010005	100000				
010006	002000	sJMPM*	sKYLT		
010007	100220				
010010	014247	sLDA	sNAD		
010011	054002	sSTA	s**3		
010012	002000	sJMPM*	sTWIN		
010013	100223				
010014	000000	sPZE	s0		
010015	002000	sJMPM*	sPADA		
010016	100237				
010017	014234	sLDA	sEAD		
010020	050326	sSTA	sEVRB		
010021	010105	sLDA	sSIX	SET ENTER SW	
010022	002000	sJMPM*	sSENC		
010023	100213				
010024	010027 R	sPZE	sAA		
010025	001000	sJMP*	sENRT		
010026	100212				
 *					
010027	014222	AA	sLDA	sERIN	CHECK ERR IND
010030	001010		sJAZ	s**5	
010031	010035 R		sLDA	sFIVE	OFF ERR FLASH
010032	010104		sJMPM*	sFLSH	
010033	002000				
010034	100221				
010035	014221		sLDA	sTAD	

010036	054002		sSTA	s**+3	
010037	002000		sJMPM*	sTWIN	
010040	100223				
010041	000000		sPZE	s0	
010042	014217		sLDA	sORG	
010043	004354		sLSRA	s12	
010044	150130		sANA	sMSKA	
010045	054214		sSTA	sORG	
010046	014215		sLDA	sTVA	ASSEMBLE IDENT
010047	004344		sLSRA	s4	
010050	005012		sTAB	s	
010051	014213		sLDA	sTVB	
010052	060127		sSTB	sMEM	
010053	005002		sTZB	s	
010054	004450		sLLRL	s8	
010055	110127		sORA	sMEM	
010056	002000		sJMPM*	sDECB	
010057	100207				
010060	054202		sSTA	sIDEN	
010061	014202		sLDA	sTVA	
010062	150130		sANA	sMSKA	
010063	054203		sSTA	sCOND	
010064	014175		sLDA	sORG	
010065	140110		sSUB	sTEN	
010066	001002		sJAP	sADA	ORG SYS ERROR
010067	010143 R				
010070	014171		sLDA	sORG	CHECK IF SAME ORG SYS
010071	144164		sSUB	sLSO	
010072	001010		sJAZ	sAB	SKIP ORG PRINT
010073	010116 R				
010074	014165		sLDA	sORG	
010075	054160		sSTA	sLSO	
010076	014205		sLDA	sORAD	
010077	124162		sADD	sORG	
010100	054154		sSTA	sTA	
010101	017700 I		sLDA*	sTA	
010102	054152		sSTA	sTA	
010103	120100		sADD	sONE	
010104	054010		sSTA	s**+9	
010105	014144		sLDA	sERIN	
010106	001010		sJAZ	s**+4	
010107	010112 R				
010110	005001		sTZA	s	
010111	054140		sSTA	sERIN	
010112	017700 I		sLDA*	sTA	
010113	002000		sJMPM*	sPRDR	
010114	100224				
010115	000000		sPZE	s0	
010116	014151 AB		sLDA	sPAD	
010117	124142		sADD	sORG	
010120	054134		sSTA	sTA	
010121	017700 I		sLDA*	sTA	IDENT TABLE ADDR
010122	054132		sSTA	sTA	
010123	017700 I		sLDA*	sTA	

010124	144136	AC	*SUB	*IDEN
010125	001010		*JAZ	*AE
010126	010160 R			
010127	044125	AD	*INR	*TA
010130	017700 I		*LDA*	*TA
010131	001010		*JAZ	*#4
010132	010135 R			
010133	001000		*JMP	*AD
010134	010127 R			
010135	044117		*INR	*TA
010136	017700 I		*LDA*	*TA
010137	001010		*JAZ	*#4
010140	010143 R			
010141	001000		*JMP	*AC
010142	010124 R			
010143	044106	ADA	*INR	*ERIN NO IDENT FOUND
010144	010104		*LDA	*FIVE
010145	006130		*ERA1	*0100000 FLASH OP ERR
010146	100000			
010147	002000		*JMPM*	*FLSH
010150	100221			
010151	001000		*JMP*	*ENRT
010152	100212			
010153			*BSS	*5
010160	044074	AE	*INR	*TA PRINT IDENT INFO
010161	014073		*LDA	*TA
010162	054015		*STA	*AG#4
010163	005001		*TZA	*
010164	054101		*STA	*WCT
010165	044067	AF	*INR	*TA COUNT NO OF WORDS
010166	017700 I		*LDA*	*TA
010167	001010		*JAZ	*AG
010170	010174 R			
010171	044074		*INR	*WCT
010172	001000		*JMP	*AF
010173	010165 R			
010174	014071	AG	*LDA	*WCT
010175	120100		*ADD	*ONE
010176	002000		*JMPM*	*PRDR
010177	100224			
010200	000000		*PZE	*
010201	010100		*LDA	*ONE OUTPUT 2 SPACES
010202	002000		*JMPM*	*PRDR
010203	100224			
010204	010253 R		*PZE	*SPC
010205	005001		*TZA	*
010206	024060		*LDB	*COND
010207	160103		*MUL	*FOUR
010210	005021		*TBA	*
010211	124236		*ADD	*CAD
010212	054003		*STA	*#4
010213	010103		*LDA	*FOUR
010214	002000		*JMPM*	*PRDR
010215	100224			

010216	000000		sPZE	,0	
010217	001000		sJMP*	,ENRT	
010220	100212				
010221			sBSS	,5	
*					
010226	010110	BA	sLDA	,NINE	ENTERED FROM END VERB
010227	006130		sERAI	,0100000	
010230	100000				
010231	002000		sJMPM*	,KYLT	
010232	100220				
010233	010105		sLDA	,SIX	
010234	002000		sJMPM*	,KYLT	
010235	100220				
010236	001000		sJMP*	,ENRT	
010237	100212				
010240			sBSS	,10	
*					
010252	000000	ERIN	sDATA	,0	ERROR INDICATOR
010253	120240	SPC	sDATA	,0120240	
010254	010226 R	EAD	sPZE	,BA	EXIT ADDRESS
010255	000000	TA	sDATA	,0	TEMPORARY
010256	000000	LSO	sDATA	,0	LAST ORGAN ENTRY
010257	010261 R	TAD	sPZE	,ASTR	
010260	000306	NAD	sDATA	,0306	
010261	000000	ASTR	sDATA	,0	
010262	000000	ORG	sDATA	,0	
010263	000000	IDEN	sDATA	,0	
010264	000000	TVA	sDATA	,0	
010265	000000	TVB	sDATA	,0	
010266	000000	WCT	sDATA	,0	
010267	000000	COND	sDATA	,0	
010270	010271 R	PAD	sPZE	,PTB	
010271	010507 R	PTB	sDATA	,T1	GENERAL
010272	010727 R		sDATA	,T2	HEAD
010273	011207 R		sDATA	,T3	EYES
010274	012152 R		sDATA	,T4	EARS
010275	012702 R		sDATA	,T5	LUNGS
010276	013145 R		sDATA	,T6	HEART
010277	013545 R		sDATA	,T7	ABDOMEN
010300	014566 R		sDATA	,T8	GENITOURINARY
010301	015301 R		sDATA	,T9	UPPER EXTREMITIES
010302	016602 R		sDATA	,T10	LOWER EXTREMITIES
010303	000000		sDATA	,0	
*					
010304	010305 R	ORAD	sPZE	,ORTB	ORGAN SYSTEM TABLES
010305	010320 R	ORTB	sPZE	,GSTA	
010306	010332 R		sPZE	,HEAD	
010307	010343 R		sPZE	,EYES	
010310	010350 R		sPZE	,EARS	
010311	010365 R		sPZE	,LUNG	
010312	010372 R		sPZE	,HART	
010313	010377 R		sPZE	,ABDO	
010314	010411 R		sPZE	,GENT	
010315	010422 R		sPZE	,UPEX	

010316	010435 R		sPZE	sLGEX
010317	000000		sDATA	s0
010320	000010	GSTA	sDATA	s8
010321	143705		sDATA	s"GENERAL STATUS "
010322	147305			
010323	151301			
010324	146240			
010325	151724			
010326	140724			
010327	152723			
010330	120240			
010331	000000	HEAD	sDATA	s0
010332	000007		sDATA	s7
010333	144305		sDATA	s"HEAD AND NECK "
010334	145704			
010335	120301			
010336	147304			
010337	120316			
010340	142703			
010341	145640			
010342	000000	EYES	sDATA	s0
010343	000003		sDATA	s3
010344	142731		sDATA	s"EYES "
010345	142723			
010346	120240			
010347	000000	EARs	sDATA	s0
010350	000013		sDATA	s11
010351	142701		sDATA	s"EARS,NOSE,AND THROAT "
010352	151323			
010353	126316			
010354	147723			
010355	142654			
010356	140716			
010357	142240			
010360	152310			
010361	151317			
010362	140724			
010363	120240			
010364	000000	LUNG	sDATA	s0
010365	000003		sDATA	s3
010366	146325		sDATA	s" LUNG "
010367	147307			
010370	120240			
010371	000000	HART	sDATA	s0
010372	000003		sDATA	s3
010373	144305		sDATA	s"HEART "
010374	140722			
010375	152240			
010376	000000	ABDO	sDATA	s0
010377	000010		sDATA	s8
010400	140702		sDATA	s" ABDOMEN-RECTUM "
010401	142317			
010402	146705			
010403	147255			

010404	151305					
010405	141724					
010406	152715					
010407	123240					
010410	000000		sDATA	s0		
010411	000007	GENT	sDATA	s7		
010412	143705		sDATA	s"GENITOURINARY "		
010413	147311					
010414	152317					
010415	152722					
010416	144716					
010417	140722					
010420	154640					
010421	000000		sDATA	s0		
010422	000012	UPEX	sDATA	s10		
010423	152720		sDATA	s"UPPER EXTREMITIES "		
010424	150305					
010425	151240					
010426	142730					
010427	152322					
010430	142715					
010431	144724					
010432	144705					
010433	151640					
010434	000000		sDATA	s0		
010435	000012	LOEX	sDATA	s10		
010436	146317		sDATA	s"LOWER EXTREMITIES "		
010437	153705					
010440	151240					
010441	142730					
010442	152322					
010443	142715					
010444	144724					
010445	144705					
010446	151640					
010447	000000		sDATA	s0		
*						
010450	010451	R CAD	sPZE	sCTBL	CONDITION TABLES	
010451	141717	CTBL	sDATA	s"COND 0 "		
010452	147304					
010453	120260					
010454	120240					
010455	141717		sDATA	s"COND 1 "		
010456	147304					
010457	120261					
010460	120240					
010461	141717		sDATA	s"COND 2 "		
010462	147304					
010463	120262					
010464	120240					
010465	141717		sDATA	s"COND 3 "		
010466	147304					
010467	120263					
010470	120240					

010471	141717		DATA	s'COND 4'
010472	147304			
010473	120264			
010474	120240			
010475			BSS	s'10
*				
* IMBLMS MEDICAL HISTORY				
* GENERAL STATUS				
*				
010507	000145	T1	DATA	s'101
010510	153705		DATA	s'WELL BEING'
010511	146314			
010512	120302			
010513	142711			
010514	147307			
010515	000000		DATA	s'0
010516	000146		DATA	s'102
010517	140714		DATA	s'ALERTNESS'
010520	142722			
010521	152316			
010522	142723			
010523	151640			
010524	000000		DATA	s'0
010525	000147		DATA	s'103
010526	143301		DATA	s'FATIGUE'
010527	152311			
010530	143725			
010531	142640			
010532	000000		DATA	s'0
010533	000150		DATA	s'104
010534	144716		DATA	s'INSOMNIA'
010535	151717			
010536	146716			
010537	144701			
010540	000000		DATA	s'0
010541	000151		DATA	s'105
010542	144722		DATA	s'IRRITABILITY'
010543	151311			
010544	152301			
010545	141311			
010546	146311			
010547	152331			
010550	000000		DATA	s'0
010551	000152		DATA	s'106
010552	152305		DATA	s'TENSENESS'
010553	147323			
010554	142716			
010555	142723			
010556	151640			
010557	000000		DATA	s'0
010560	000153		DATA	s'107
010561	141317		DATA	s'BOREDOM'
010562	151305			
010563	142317			

010554	146640	
010555	000000	•DATA •0
010566	000154	•DATA •108
010567	144317	•DATA •"HOSTILITY TO EXAMINER"
010570	151724	
010571	144714	
010572	144724	
010573	154640	
010574	152317	
010575	120305	
010576	154301	
010577	146711	
010600	147305	
010601	151240	
010602	000000	•DATA •0
010603	000155	•DATA •109
010604	142305	•DATA •"DELUSIONS"
010605	146325	
010606	151711	
010607	147716	
010610	151640	
010611	000000	•DATA •0
010612	000144	•DATA •100
010613	144301	•DATA •"HALLUCINATIONS"
010614	146314	
010615	152703	
010616	144716	
010617	140724	
010620	144717	
010621	147323	
010622	000000	•DATA •0
010623	000311	•DATA •201
010624	151714	•DATA •"SLEEP"
010625	142705	
010626	150240	
010627	000000	•DATA •0
010630	000312	•DATA •202
010631	142322	•DATA •"DREAMS"
010632	142701	
010633	146723	
010634	000000	•DATA •0
010635	000455	•DATA •301
010636	153701	•DATA •"WATER INTAKE"
010637	152305	
010640	151240	
010641	144716	
010642	152301	
010643	145705	
010644	000000	•DATA •0
010645	000456	•DATA •302
010646	143317	•DATA •"FOOD INTAKE"
010647	147704	
010650	120311	
010651	147324	

010652	140713			
010653	142640			
010654	000000	sDATA	s0	
010655	000457	sDATA	s303	
010656	146711	sDATA	s'MICTURITION'	
010657	141724			
010660	152722			
010661	144724			
010662	144717			
010663	147240			
010664	000000	sDATA	s0	
010665	000460	sDATA	s304	
010666	142305	sDATA	s'DEFECATION'	
010667	143305			
010670	141701			
010671	152311			
010672	147716			
010673	000000	sDATA	s0	
010674	000461	sDATA	s305	
010675	145311	sDATA	s'LIBIDO'	
010676	141311			
010677	142317			
010700	000000	sDATA	s0	
010701	000462	sDATA	s306	
010702	144716	sDATA	s'INTERPERSONAL REALTIONS'	
010703	152305			
010704	151320			
010705	142722			
010706	151717			
010707	147301			
010710	146240			
010711	151305			
010712	140714			
010713	152311			
010714	147716			
010715	151640			
010716	000000	sDATA	s0	
010717	000463	sDATA	s307	
010720	150305	sDATA	s'PERSPIRATION'	
010721	151323			
010722	150311			
010723	151301			
010724	152311			
010725	147716			
010726	000000	sDATA	s0	
* IMBLMS MEDICAL HISTORY				
* HEAD AND NECK				
010727	000001	T2	sDATA	s1
010730	144305		sDATA	s'HEADACHE'
010731	140704			
010732	140703			
010733	144305			
010734	000000		sDATA	s0

010735	000014	»DATA	»12
010736	144724	»DATA	»"ITCHING"
010737	141710		
010740	144716		
010741	143640		
010742	000000	»DATA	»0
010743	000027	»DATA	»23
010744	141726	»DATA	»"CVA"
010745	140640		
010746	000000	»DATA	»0
010747	000157	»DATA	»111
010750	151713	»DATA	»"SKIN TEXTURE"
010751	144716		
010752	120324		
010753	142730		
010754	152325		
010755	151305		
010756	000000	»DATA	»0
010757	000172	»DATA	»122
010760	144301	»DATA	»"HAIR TEXTURE"
010761	144722		
010762	120324		
010763	142730		
010764	152325		
010765	151305		
010766	000000	»DATA	»0
010767	000323	»DATA	»211
010770	151713	»DATA	»"SKIN--FOREHEAD"
010771	144716		
010772	126655		
010773	143317		
010774	151305		
010775	144305		
010776	140704		
010777	000000	»DATA	»0
011000	000336	»DATA	»222
011001	143301	»DATA	»"FACIAL MUSCLES"
011002	141711		
011003	140714		
011004	120315		
011005	152723		
011006	141714		
011007	142723		
011010	000000	»DATA	»0
011011	000351	»DATA	»233
011012	146311	»DATA	»"LIP MOVEMENT"
011013	150240		
011014	146717		
011015	153305		
011016	146705		
011017	147324		
011020	000000	»DATA	»0
011021	000352	»DATA	»234
011022	143301	»DATA	»"FACIAL COLOR"

011023	141711	
011024	140714	
011025	120303	
011026	147714	
011027	147722	
011030	000000	DATA 0
011031	000353	DATA 235
011032	150301	DATA "PAROTID GLAND TENDERNESS"
011033	151317	
011034	152311	
011035	142240	
011036	143714	
011037	140716	
011040	142240	
011041	152305	
011042	147304	
011043	142722	
011044	147305	
011045	151723	
011046	000000	DATA 0
011047	000354	DATA 236
011050	151725	DATA "SUBMAX. GLAND TENDERNESS"
011051	141315	
011052	140730	
011053	127240	
011054	143714	
011055	140716	
011056	142240	
011057	152305	
011060	147304	
011061	142722	
011062	147305	
011063	151723	
011064	000000	DATA 0
011065	000355	DATA 237
011066	150301	DATA "PAIN"
011067	144716	
011070	000000	DATA 0
011071	000467	DATA 311
011072	151713	DATA "SKIN COLOR"
011073	144716	
011074	120303	
011075	147714	
011076	147722	
011077	000000	DATA 0
011100	000302	DATA 322
011101	146725	DATA "MUSCLE TENDERNESS"
011102	151703	
011103	146305	
011104	120324	
011105	142716	
011106	142305	
011107	151316	
011110	142723	

011111	151640		
011112	000000	DATA	0
011113	000315	DATA	333
011114	146725	DATA	"MUSCLE SPASMS"
011115	151703		
011116	146305		
011117	120323		
011120	150301		
011121	151715		
011122	000000	DATA	0
011123	000516	DATA	334
011124	151724	DATA	"STIFFNESS"
011125	144706		
011126	143316		
011127	142723		
011130	151640		
011131	000000	DATA	0
011132	000517	DATA	335
011133	143317	DATA	"FOLLICULITIS"
011134	146314		
011135	144703		
011136	152714		
011137	144724		
011140	144723		
011141	000000	DATA	0
011142	000520	DATA	336
011143	146331	DATA	"LYMPH ADENOPATHY"
011144	146720		
011145	144240		
011146	140704		
011147	142716		
011150	147720		
011151	140724		
011152	144331		
011153	000000	DATA	0
011154	000521	DATA	337
011155	152310	DATA	"THYROID ENLARGEMENT"
011156	154722		
011157	147711		
011160	142240		
011161	142716		
011162	146301		
011163	151307		
011164	142715		
011165	142716		
011166	152240		
011167	000000	DATA	0
011170	000522	DATA	338
011171	150301	DATA	"PAIN"
011172	144716		
011173	000000	DATA	0
011174	000523	DATA	339
011175	142730	DATA	"EXTERNAL SWELLING"
011176	152305		

011177	151316
011200	140714
011201	120323
011202	153705
011203	146314
011204	144716
011205	143640
011206	000000

*DATA *0

* IMBLMS MEDICAL HISTORY

* EYES

*

011207	000013	T3	*DATA	*11
011210	150310		*DATA	*'PHOTOPHOBIA'
011211	147724			
011212	147720			
011213	144317			
011214	141311			
011215	140640			
011216	000000		*DATA	*0
011217	000026		*DATA	*22
011220	142311		*DATA	*'DIPLOPIA'
011221	150314			
011222	147720			
011223	144701			
011224	000000		*DATA	*0
011225	000041		*DATA	*33
011226	141314		*DATA	*'BLURRED VISION'
011227	152722			
011230	151305			
011231	142240			
011232	153311			
011233	151711			
011234	147716			
011235	000000		*DATA	*0
011236	000042		*DATA	*34
011237	144301		*DATA	*'HALO AROUND LIGHTS'
011240	146317			
011241	120301			
011242	151317			
011243	152716			
011244	142240			
011245	146311			
011246	143710			
011247	152323			
011250	000000		*DATA	*0
011251	000043		*DATA	*35
011252	146301		*DATA	*'LACRIMATION'
011253	141722			
011254	144715			
011255	140724			
011256	144717			
011257	147240			
011260	000000		*DATA	*0
011261	000044		*DATA	*36

011350	141705		
011351	151301		
011352	152311		
011353	147716		
011354	000000	DATA	0
011355	000210	DATA	136
011356	146301	DATA	*LACHRYMAL DUCT SWELLING*
011357	141710		
011360	151331		
011361	146701		
011362	146240		
011363	142325		
011364	141724		
011365	120323		
011366	153705		
011367	145314		
011370	144716		
011371	143640		
011372	000000	DATA	0
011373	000323	DATA	211
011374	144716	DATA	*INJECTED*
011375	145305		
011376	141724		
011377	142704		
011400	000000	DATA	0
011401	000336	DATA	222
011402	141717	DATA	*CONJUNCTIVITIS LATERAL*
011403	147312		
011404	152716		
011405	141724		
011406	144726		
011407	144724		
011410	144723		
011411	120314		
011412	140724		
011413	142722		
011414	140714		
011415	000000	DATA	0
011416	000351	DATA	233
011417	141717	DATA	*CONJUNCTIVITIS NASAL*
011420	147312		
011421	152716		
011422	141724		
011423	144726		
011424	144724		
011425	144723		
011426	120316		
011427	140723		
011430	140714		
011431	000000	DATA	0
011432	000352	DATA	234
011433	141717	DATA	*CONJUNCTIVITIS LIMBAL*
011434	147312		
011435	152716		

011262	144724	•DATA	•"ITCHING"
011263	141710		
011264	144716		
011265	143640		
011266	000000	•DATA	•0
011267	000045	•DATA	•37
011270	143722	•DATA	•"GRITTY FEELING"
011271	144724		
011272	152351		
011273	120306		
011274	142705		
011275	146311		
011276	147307		
011277	000000	•DATA	•0
011300	000046	•DATA	•38
011301	141314	•DATA	•"BLURRING"
011302	152722		
011303	151311		
011304	147307		
011305	000000	•DATA	•0
011306	000047	•DATA	•39
011307	150301	•DATA	•"PAIN"
011310	144716		
011311	000000	•DATA	•0
011312	000157	•DATA	•111
011313	150324	•DATA	•"PTOSIS"
011314	147723		
011315	144723		
011316	000000	•DATA	•0
011317	000172	•DATA	•122
011320	146311	•DATA	•"LID LAG"
011321	142240		
011322	146301		
011323	143640		
011324	000000	•DATA	•0
011325	000205	•DATA	•133
011326	141314	•DATA	•"BLEPHARITIS"
011327	142720		
011330	144301		
011331	151311		
011332	152311		
011333	151640		
011334	000000	•DATA	•0
011335	000206	•DATA	•134
011336	151724	•DATA	•"STY/CHALAZION"
011337	154657		
011340	141710		
011341	140714		
011342	140732		
011343	144717		
011344	147240		
011345	000000	•DATA	•0
011346	000207	•DATA	•135
011347	146301	•DATA	•"LACERATION"

011436 141724
011437 144726
011440 144724
011441 144723
011442 120314
011443 144715
011444 141301
011445 146240
011446 000000 »DATA «0
011447 000353 »DATA «235
011450 141717 »DATA «"CONJUNCTIVE-FOREIGN BODY"
011451 147312
011452 152716
011453 141724
011454 144726
011455 142655
011456 143317
011457 151305
011460 144707
011461 147240
011462 141317
011463 142331
011464 000000 »DATA «0
011465 000354 »DATA «236
011466 141717 »DATA «"CONJUNCTIVE-CHEMOSIS"
011467 147312
011470 152716
011471 141724
011472 144726
011473 142655
011474 141710
011475 142715
011476 147723
011477 144723
011500 000000 »DATA «0
011501 000355 »DATA «237
011502 141717 »DATA «"CONJUNCTIVE-PETECHIAE"
011503 147312
011504 152716
011505 141724
011506 144726
011507 142655
011510 150305
011511 152305
011512 141710
011513 144701
011514 142640
011515 000000 »DATA «0
011516 000356 »DATA «238
011517 141717 »DATA «"CONJUNCTIVE-HEMORRHAGE"
011520 147312
011521 152716
011522 141724
011523 144726

011524	142655	
011525	144305	
011526	146717	
011527	151322	
011530	144301	
011531	143705	
011532	000000	•DATA •0
011533	000467	•DATA •311
011534	151703	•DATA •"SCLERA-PETECHIAE"
011535	146305	
011536	151301	
011537	126720	
011540	142724	
011541	142703	
011542	144311	
011543	140705	
011544	000000	•DATA •0
011545	000502	•DATA •322
011546	151703	•DATA •"SCLERA-HEMORRHAGE"
011547	146305	
011550	151301	
011551	126710	
011552	142715	
011553	147722	
011554	151310	
011555	140707	
011556	142640	
011557	000000	•DATA •0
011560	000515	•DATA •333
011561	151703	•DATA •"SCLERA ICTERUS"
011562	146305	
011563	151301	
011564	120311	
011565	141724	
011566	142722	
011567	152723	
011570	000000	•DATA •0
011571	000633	•DATA •411
011572	147703	•DATA •"OCULAR PALPATION"
011573	152714	
011574	140722	
011575	120320	
011576	140714	
011577	150301	
011600	152311	
011601	147716	
011602	000000	•DATA •0
011603	000646	•DATA •422
011604	147703	•DATA •"OCULAR TONOMETRY"
011605	152714	
011606	140722	
011607	120324	
011610	147716	
011611	147715	

011700	000000	,DATA	,0
011701	001171	,DATA	,633
011702	141717	,DATA	,*CORNEA=PAIN*
011703	151316		
011704	142701		
011705	126720		
011706	140711		
011707	147240		
011710	000000	,DATA	,0
011711	001172	,DATA	,634
011712	141717	,DATA	,*CORNEA=FORIEGN BODY*
011713	151316		
011714	142701		
011715	126705		
011716	147722		
011717	144705		
011720	143716		
011721	120302		
011722	147704		
011723	154640		
011724	000000	,DATA	,0
011725	001173	,DATA	,635
011726	141717	,DATA	,*CORNEA=ABRASION/ULCER*
011727	151316		
011730	142701		
011731	126701		
011732	141322		
011733	140723		
011734	144717		
011735	147257		
011736	152714		
011737	141705		
011740	151240		
011741	000000	,DATA	,0
011742	001307	,DATA	,711
011743	140716	,DATA	,*ANTERIOR CHAMBER=DEPTH*
011744	152305		
011745	151311		
011746	147722		
011747	120303		
011750	144301		
011751	146702		
011752	142722		
011753	126704		
011754	142720		
011755	152310		
011756	000000	,DATA	,0
011757	001322	,DATA	,722
011760	140716	,DATA	,*ANTERIOR CHAMBER=HYPOPION*
011761	152305		
011762	151311		
011763	147722		
011764	120303		
011765	144301		

011612	142724		
011613	151331		
011614	000000	DATA	0
011615	000777	DATA	511
011616	142731	DATA	"EYE MOVEMENT-RECTUS WEAKNESS"
011617	142640		
011620	146717		
011621	153305		
011622	146705		
011623	147324		
011624	126722		
011625	142703		
011626	152325		
011627	151640		
011630	153705		
011631	140713		
011632	147305		
011633	151723		
011634	000000	DATA	0
011635	001012	DATA	522
011636	142731	DATA	"EYE MOVEMENT-OBLIQUE WEAKNESS"
011637	142640		
011640	146717		
011641	153305		
011642	146705		
011643	147324		
011644	126717		
011645	141314		
011646	144721		
011647	152705		
011650	120327		
011651	142701		
011652	146716		
011653	142723		
011654	151640		
011655	000000	DATA	0
011656	001143	DATA	611
011657	141717	DATA	"CORNEA-KERATITIS"
011660	151316		
011661	142701		
011662	126713		
011663	142722		
011664	140724		
011665	144724		
011666	144723		
011667	000000	DATA	0
011670	001156	DATA	622
011671	141717	DATA	"CORNEA-OPACITY"
011672	151316		
011673	142701		
011674	126717		
011675	150301		
011676	141711		
011677	152331		

011766	147302	
011767	142722	
011770	126710	
011771	154720	
011772	147720	
011773	144717	
011774	147246	
011775	000000	*DATA 0
011776	001463	*DATA 811
011777	150325	*DATA "PUPIL SIZE"
012000	150311	
012001	146240	
012002	151711	
012003	155305	
012004	000000	*DATA 0
012005	001466	*DATA 822
012006	150325	*DATA "PUPIL SHAPE"
012007	150311	
012010	146240	
012011	151710	
012012	140720	
012013	142640	
012014	000000	*DATA 0
012015	001501	*DATA 833
012016	151305	*DATA "REACTION TO LIGHT"
012017	140703	
012020	152311	
012021	147716	
012022	120324	
012023	147640	
012024	146311	
012025	143710	
012026	152240	
012027	000000	*DATA 0
012030	001502	*DATA 834
012031	144722	*DATA "IRIS-ACCOMODATION"
012032	144723	
012033	126701	
012034	141703	
012035	147715	
012036	147704	
012037	140724	
012040	144717	
012041	147240	
012042	000000	*DATA 0
012043	001503	*DATA 835
012044	144722	*DATA "IRITIS"
012045	144724	
012046	144723	
012047	000000	*DATA 0
012050	001617	*DATA 911
012051	143325	*DATA "FUNDUS-COLOR"
012052	147304	
012053	152723	

012054	126703	
012055	147714	
012056	147722	
012057	000000	,DATA ,0
012060	001632	,DATA ,922
012061	143325	,DATA , "FUNDUS-ARTERIES"
012062	147301	
012063	152723	
012064	126701	
012066	151324	
012066	142722	
012067	144705	
012070	151640	
012071	000000	,DATA ,0
012072	001645	,DATA ,933
012073	143325	,DATA , "FUNDUS-VEINS"
012074	147304	
012075	152723	
012076	126726	
012077	142711	
012100	147323	
012101	000000	,DATA ,0
012102	001646	,DATA ,934
012103	143325	,DATA , "FUNDUS-HEMORRHAGE"
012104	147304	
012105	152723	
012106	126710	
012107	142715	
012110	147722	
012111	151310	
012112	140707	
012113	142640	
012114	000000	,DATA ,0
012115	001647	,DATA ,935
012116	143325	,DATA , "FUNDUS-EXUDATES"
012117	147304	
012120	152723	
012121	126705	
012122	154325	
012123	142301	
012124	152305	
012125	151640	
012126	000000	,DATA ,0
012127	001650	,DATA ,936
012130	143325	,DATA , "FUNDUS-DETACHMENT"
012131	147304	
012132	152723	
012133	126704	
012134	142724	
012135	140703	
012136	144315	
012137	142716	
012140	152240	
012141	000000	,DATA ,0

012142	001651	DATA	937
012143	143325	DATA	"FUNDUS=DISCS"
012144	147304		
012145	152723		
012146	126704		
012147	144723		
012150	141723		
012151	000000	DATA	0
* IMBLMS MEDICAL HISTORY			
* EARS, NOSE AND THROAT			
*			
012152	000013	T4	DATA 11
012153	142701	DATA	"EAR ITCH"
012154	151240		
012155	144724		
012156	141710		
012157	000000	DATA	0
012160	000026	DATA	22
012161	142701	DATA	"EAR DISCHARGE"
012162	151240		
012163	142311		
012164	151703		
012165	144301		
012166	151307		
012167	142640		
012170	000000	DATA	0
012171	000042	DATA	34
012172	142730	DATA	"EXTERNAL OTITIS"
012173	152305		
012174	151316		
012175	140714		
012176	120317		
012177	152311		
012200	152311		
012201	151640		
012202	000000	DATA	0
012203	000043	DATA	35
012204	142311	DATA	"DIZZINESS"
012205	155332		
012206	144716		
012207	142723		
012210	151640		
012211	000000	DATA	0
012212	000044	DATA	36
012213	142311	DATA	"DISORIENTATION"
012214	151717		
012215	151311		
012216	142716		
012217	152301		
012220	152311		
012221	147716		
012222	000000	DATA	0
012223	000045	DATA	37
012224	153305	DATA	"VERTIGO"

012225	151324	
012226	144707	
012227	147640	
012230	000000	DATA 0
012231	000046	DATA 38
012232	152311	DATA "TINNITIS"
012233	147316	
012234	144724	
012235	144723	
012236	000000	DATA 0
012237	000047	DATA 39
012240	142305	DATA "DEAFNESS"
012241	140706	
012242	147305	
012243	151723	
012244	000000	DATA 0
012245	000157	DATA 111
012246	140725	DATA "AURICLE"
012247	151311	
012250	141714	
012251	142640	
012252	000000	DATA 0
012253	000172	DATA 122
012254	141701	DATA "CANAL"
012255	147301	
012256	146240	
012257	000000	DATA 0
012260	000205	DATA 133
012261	153701	DATA "WAX"
012262	154240	
012263	000000	DATA 0
012264	000323	DATA 211
012265	142701	DATA "EARDRUM COLOR"
012266	151304	
012267	151325	
012270	146640	
012271	141717	
012272	146317	
012273	151240	
012274	000000	DATA 0
012275	000336	DATA 222
012276	142701	DATA "EARDRUM REFLEX"
012277	151304	
012300	151325	
012301	146640	
012302	151305	
012303	143314	
012304	142730	
012305	000000	DATA 0
012306	000351	DATA 233
012307	143314	DATA "FLUID"
012310	152711	
012311	142240	
012312	000000	DATA 0

012313	000352	sDATA	s234
012314	150303	sDATA	s"PERFORATION"
012315	151306		
012316	147722		
012317	140724		
012320	144717		
012321	147240		
012322	000000	sDATA	s0
012323	000455	sDATA	s301
012324	141717	sDATA	s"CORYZA"
012325	151331		
012326	155301		
012327	000000	sDATA	s0
012330	000470	sDATA	s312
012331	151716	sDATA	s"SNEEZING"
012332	142705		
012333	155311		
012334	147307		
012335	000000	sDATA	s0
012336	000503	sDATA	s323
012337	142720	sDATA	s"EPISTAXIS"
012340	144723		
012341	152301		
012342	154311		
012343	151640		
012344	000000	sDATA	s0
012345	000516	sDATA	s334
012346	147702	sDATA	s"OBSTRUCTION NARES"
012347	151724		
012350	151325		
012351	141724		
012352	144717		
012353	147240		
012354	147301		
012355	151305		
012356	151640		
012357	000000	sDATA	s0
012360	000517	sDATA	s335
012361	143322	sDATA	s"FRONTAL SINUS PAIN"
012362	147716		
012363	152301		
012364	146240		
012365	151711		
012366	147325		
012367	151640		
012370	150301		
012371	144716		
012372	000000	sDATA	s0
012373	000520	sDATA	s336
012374	146701	sDATA	s"MAX. SINUS PAIN"
012375	154256		
012376	120323		
012377	144716		
012400	152723		

012401	120320	
012402	140711	
012403	147240	
012404	000000	»DATA «0
012405	000521	»DATA «337
012406	141717	»DATA «"COLD"
012407	146304	
012410	000000	»DATA «0
012411	000522	»DATA «338
012412	147317	»DATA «"NOSTRIL MUCOSA"
012413	151724	
012414	151311	
012415	146240	
012416	146725	
012417	141717	
012420	151701	
012421	000000	»DATA «0
012422	000523	»DATA «339
012423	147317	»DATA «"NOSTRIL DISCHARGE"
012424	151724	
012425	151311	
012426	146240	
012427	142311	
012430	151703	
012431	144301	
012432	151307	
012433	142640	
012434	000000	»DATA «0
012435	000512	»DATA «330
012436	147317	»DATA «"NOSTRIL DISCHARGE COLOR"
012437	151724	
012440	151311	
012441	146240	
012442	142311	
012443	151703	
012444	144301	
012445	151307	
012446	142640	
012447	141717	
012450	146317	
012451	151240	
012452	000000	»DATA «0
012453	000671	»DATA «441
012454	146311	»DATA «"LIP COLOR"
012455	150240	
012456	141717	
012457	146317	
012460	151240	
012461	000000	»DATA «0
012462	000704	»DATA «452
012463	146311	»DATA «"LIP HERPES SIMPLEX"
012464	150240	
012465	144305	
012466	151320	

012467	142723	
012470	120323	
012471	144715	
012472	150314	
012473	142730	
012474	000000	,DATA ,0
012475	000717	,DATA ,463
012476	146311	,DATA ,*LIP CHEILITIS*
012477	150240	
012500	141710	
012501	142711	
012502	146311	
012503	152311	
012504	151640	
012505	000000	,DATA ,0
012506	000765	,DATA ,501
012507	152317	,DATA ,*TONGUE COLOR*
012510	147307	
012511	152705	
012512	120303	
012513	147714	
012514	147722	
012515	000000	,DATA ,0
012516	000766	,DATA ,502
012517	152317	,DATA ,*TONGUE COATING*
012520	147307	
012521	152705	
012522	120303	
012523	147701	
012524	152311	
012525	147307	
012526	000000	,DATA ,0
012527	001131	,DATA ,601
012530	152317	,DATA ,*TOOTHACHE*
012531	147724	
012532	144301	
012533	141710	
012534	142640	
012535	000000	,DATA ,0
012536	001132	,DATA ,602
012537	141701	,DATA ,*CARIES*
012540	151311	
012541	142723	
012542	000000	,DATA ,0
012543	001133	,DATA ,603
012544	141701	,DATA ,*CALCULUS*
012545	146303	
012546	152714	
012547	152723	
012550	000000	,DATA ,0
012551	000103	,DATA ,67
012552	152317	,DATA ,*TOOTH*
012553	147724	
012554	144240	

012555	000000	DATA	0
012556	001345	DATA	741
012557	143711	DATA	"GINGIVA COLOR"
012560	147307		
012561	144726		
012562	140640		
012563	141717		
012564	146317		
012565	151240		
012566	000000	DATA	0
012567	001360	DATA	752
012570	143711	DATA	"GINGIVA BLEEDING"
012571	147307		
012572	144726		
012573	140640		
012574	141314		
012575	142705		
012576	142311		
012577	147307		
012600	000000	DATA	0
012601	001373	DATA	763
012602	143711	DATA	"GINGIVA ULCERATION"
012603	147307		
012604	144726		
012605	140640		
012606	152714		
012607	141705		
012610	151301		
012611	152311		
012612	147716		
012613	000000	DATA	0
012614	001453	DATA	811
012615	151717	DATA	"SORE THROAT"
012616	151305		
012617	120324		
012620	144322		
012621	147701		
012622	152240		
012623	000000	DATA	0
012624	001466	DATA	822
012625	141717	DATA	"COLOR OF PHARYNX MUCOSA"
012626	146317		
012627	151240		
012630	147706		
012631	120320		
012632	144301		
012633	151331		
012634	147330		
012635	120315		
012636	152703		
012637	147723		
012640	140640		
012641	000000	DATA	0
012642	001501	DATA	833

012643	150310	DATA	„PHARYNX SWELLING"
012644	140722		
012645	154716		
012646	154240		
012647	151727		
012650	142714		
012651	146311		
012652	147307		
012653	000000	DATA	„0
012654	001617	DATA	„911
012655	152317	DATA	„TONSILS SWELLING"
012656	147323		
012657	144714		
012660	151640		
012661	151727		
012662	142714		
012663	146311		
012664	147307		
012665	000000	DATA	„0
012666	001632	DATA	„922
012667	152317	DATA	„TONSILS INFLAMMATION"
012670	147323		
012671	144714		
012672	151640		
012673	144716		
012674	143314		
012675	140715		
012676	146701		
012677	152311		
012700	147716		
012701	000000	DATA	„0

* IMBLMS MEDICAL HISTORY

* LUNGS-THORAX

012702	000157	T5	DATA	„111
012703	141717		DATA	„COUGH"
012704	152707			
012705	144240			
012706	000000		DATA	„0
012707	000172		DATA	„122
012710	141710		DATA	„CHEST PAIN"
012711	142723			
012712	152240			
012713	150301			
012714	144716			
012715	000000		DATA	„0
012716	000205		DATA	„133
012717	151311		DATA	„RIB TENDERNESS"
012720	141240			
012721	152305			
012722	147304			
012723	142722			
012724	147305			

012725	151723	
012726	000000	•DATA •0
012727	000206	•DATA •134
012730	152305	•DATA •"TENDERNESS OVER SPINE"
012731	147304	
012732	142722	
012733	147305	
012734	151723	
012735	120317	
012736	153305	
012737	151240	
012740	151720	
012741	144716	
012742	142640	
012743	000000	•DATA •0
012744	000207	•DATA •135
012745	146725	•DATA •"MUSCLE TENDERNESS"
012746	151703	
012747	146305	
012750	120324	
012751	142716	
012752	142305	
012753	151316	
012754	142723	
012755	151640	
012756	000000	•DATA •0
012757	000311	•DATA •201
012760	142331	•DATA •"DYSPNEA"
012761	151720	
012762	147305	
012763	140640	
012764	000000	•DATA •0
012765	000312	•DATA •202
012766	151305	•DATA •"REST POSITION"
012767	151724	
012770	120320	
012771	147723	
012772	144724	
012773	144717	
012774	147240	
012775	000000	•DATA •0
012776	000313	•DATA •203
012777	146717	•DATA •"MOVEMENT WITH DEEP BREATH"
013000	153305	
013001	146705	
013002	147324	
013003	120327	
013004	144724	
013005	144240	
013006	142305	
013007	142720	
013010	120302	
013011	151305	
013012	140724	

013013	144240		
013014	000000	DATA	,0
013015	000314	DATA	,204
013016	140703	DATA	,"ACCESSORY RESPIRATORY MUSCLE"
013017	141705		
013020	151723		
013021	147722		
013022	154640		
013023	151305		
013024	151720		
013025	144722		
013026	140724		
013027	147722		
013030	154640		
013031	146725		
013032	151703		
013033	146305		
013034	000000	DATA	,0
013035	000765	DATA	,501
013036	142311	DATA	,"DIAPHRAGM MOVEMENT"
013037	140720		
013040	144322		
013041	140707		
013042	146640		
013043	146717		
013044	153305		
013045	146705		
013046	147324		
013047	000000	DATA	,0
013050	001012	DATA	,522
013051	143322	DATA	,"FREMITUS"
013052	142715		
013053	144724		
013054	152723		
013055	000000	DATA	,0
013056	001025	DATA	,533
013057	150305	DATA	,"PERCUSSION"
013060	151303		
013061	152723		
013062	151711		
013063	147716		
013064	000000	DATA	,0
013065	001052	DATA	,554
013066	141322	DATA	,"BREATH SOUNDS"
013067	142701		
013070	152310		
013071	120323		
013072	147725		
013073	147304		
013074	151640		
013075	000000	DATA	,0
013076	001065	DATA	,565
013077	153317	DATA	,"VOICE SOUNDS"
013100	144703		

013101	142640		
013102	151717		
013103	152716		
013104	142323		
013105	000000	DATA	0
013106	001066	DATA	566
013107	153710	DATA	*WHEEZES*
013110	142705		
013111	155305		
013112	151640		
013113	000000	DATA	0
013114	001057	DATA	567
013115	151301	DATA	*RALES*
013116	146305		
013117	151640		
013120	000000	DATA	0
013121	001070	DATA	568
013122	143322	DATA	*FRICTION RUB*
013123	144703		
013124	152311		
013125	147716		
013126	120322		
013127	152702		
013130	000000	DATA	0
013131	001071	DATA	569
013132	140704	DATA	*ADVENTITIOUS SOUNDS*
013133	153305		
013134	147324		
013135	144724		
013136	144717		
013137	152723		
013140	120323		
013141	147725		
013142	147304		
013143	151640		
013144	000000	DATA	0
* IMBLMS MEDICAL HISTORY			
* HEART			
*			
013145	000001	T6	DATA 1
013146	142311	DATA	*DIZZINESS*
013147	155322		
013150	144716		
013151	142723		
013152	151640		
013153	000000	DATA	0
013154	000002	DATA	2
013155	150301	DATA	*PALPITATION*
013156	146320		
013157	144724		
013160	140724		
013161	144717		
013162	147240		

013163	000000	DATA	0
013164	000003	DATA	3
013165	142730	DATA	"EXTRASYSTOLES"
013166	152322		
013167	140723		
013170	154723		
013171	152317		
013172	146305		
013173	151640		
013174	000000	DATA	0
013175	000004	DATA	4
013176	151713	DATA	"SKIPPED BEAT"
013177	144720		
013200	150305		
013201	142240		
013202	141305		
013203	140724		
013204	000000	DATA	0
013205	000005	DATA	5
013206	142305	DATA	"DECREASED WORK CAPACITY"
013207	141722		
013210	142701		
013211	151705		
013212	142240		
013213	153717		
013214	151313		
013215	120303		
013216	140720		
013217	140703		
013220	144724		
013221	154640		
013222	000000	DATA	0
013223	000006	DATA	6
013224	141710	DATA	"CHOKING"
013225	147713		
013226	144716		
013227	143640		
013230	000000	DATA	0
013231	000007	DATA	7
013232	151731	DATA	"SYNCOPE"
013233	147303		
013234	147720		
013235	142640		
013236	000000	DATA	0
013237	000010	DATA	8
013240	140716	DATA	"ANGINAL PAIN"
013241	143711		
013242	147301		
013243	146240		
013244	150301		
013245	144716		
013246	000000	DATA	0
013247	000011	DATA	9
013250	150305	DATA	"PERSISTENT ARRHYTHMIAS"

013251	151323	
013252	144723	
013253	152305	
013254	147324	
013255	120301	
013256	151322	
013257	144331	
013260	152310	
013261	146711	
013262	140723	
013263	000000	DATA 0
013264	000145	DATA 101
013265	144716	DATA "INSPECTION: PHIP"
013266	151720	
013267	142703	
013270	152311	
013271	147716	
013272	135240	
013273	150315	
013274	144640	
013275	000000	DATA 0
013276	000160	DATA 112
013277	144716	DATA "INSPECTION: THRILL"
013300	151720	
013301	142703	
013302	152311	
013303	147716	
013304	135240	
013305	152310	
013306	151311	
013307	146314	
013310	000000	DATA 0
013311	000455	DATA 301
013312	146705	DATA "MEDIASTINAL DULLNESS"
013313	142311	
013314	140723	
013315	152311	
013316	147301	
013317	146240	
013320	142325	
013321	146314	
013322	147305	
013323	151723	
013324	000000	DATA 0
013325	000621	DATA 401
013326	144716	DATA "INTENSITY"
013327	152305	
013330	147323	
013331	144724	
013332	154640	
013333	000000	DATA 0
013334	000622	DATA 402
013335	150311	DATA "PI VS AI"
013336	120326	

013337	151640	
013340	140711	
013341	000000	,DATA ,0
013342	000623	,DATA ,403
013343	151720	,DATA ,*SPLIT 1ST SOUND*
013344	146311	
013345	152240	
013346	130723	
013347	152240	
013350	151717	
013351	152716	
013352	142240	
013353	000000	,DATA ,0
013354	000624	,DATA ,404
013355	151720	,DATA ,*SPLIT 2ND SOUND*
013356	146311	
013357	152240	
013360	131316	
013361	142240	
013362	151717	
013363	152716	
013364	142240	
013365	000000	,DATA ,0
013366	000765	,DATA ,501
013367	151731	,DATA ,*SYSTOLIC MURMURS: APEX*
013370	151724	
013371	147714	
013372	144703	
013373	120315	
013374	152722	
013375	146725	
013376	151323	
013377	135240	
013400	140720	
013401	142730	
013402	000000	,DATA ,0
013403	000766	,DATA ,502
013404	151731	,DATA ,*SYSTOLIC MURMURS: BASE*
013405	151724	
013406	147714	
013407	144703	
013410	120315	
013411	152722	
013412	146725	
013413	151323	
013414	135240	
013415	141301	
013416	151705	
013417	000000	,DATA ,0
013420	000767	,DATA ,503
013421	151731	,DATA ,*SYSTOLIC MURMURS: TRANSMISSION*
013422	151724	
013423	147714	
013424	144703	

013425	120315	
013426	152722	
013427	146725	
013430	151323	
013431	135240	
013432	152322	
013433	140716	
013434	151715	
013435	144723	
013436	151711	
013437	147716	
013440	000000	DATA 0
013441	001131	DATA 601
013442	142311	DATA "DIASTOLIC MURMURS APEX"
013443	140723	
013444	152317	
013445	146311	
013446	141640	
013447	146725	
013450	151315	
013451	152722	
013452	151672	
013453	120301	
013454	150305	
013455	154240	
013456	000000	DATA 0
013457	001132	DATA 602
013460	142311	DATA "DIASTOLIC MURMURS BASE"
013461	140723	
013462	152317	
013463	146311	
013464	141640	
013465	146725	
013466	151315	
013467	152722	
013470	151672	
013471	120302	
013472	140723	
013473	142640	
013474	000000	DATA 0
013475	001133	DATA 603
013476	142311	DATA "DIASTOLIC MURMURS TRANSMISSION"
013477	140723	
013500	152317	
013501	146311	
013502	141640	
013503	146725	
013504	151315	
013505	152722	
013506	151672	
013507	120324	
013510	151301	
013511	147323	
013512	146711	

013513	151723			
013514	144717			
013515	147240			
013516	000000	sDATA	s0	
013517	001275	sDATA	s701	
013520	143322	sDATA	s"FRICITION RUB: APEX"	
013521	144703			
013522	152311			
013523	147716			
013524	120322			
013525	152702			
013526	135240			
013527	140720			
013530	142730			
013531	000000	sDATA	s0	
013532	001276	sDATA	s702	
013533	143322	sDATA	s"FRICITION RUB: BASE"	
013534	144703			
013535	152311			
013536	147716			
013537	120322			
013540	152702			
013541	135240			
013542	141301			
013543	151705			
013544	000000	sDATA	s0	

* IMBLMS MEDICAL HISTORY

* ABDOMEN

013545	000001	T7	sDATA	s1
013546	147301		sDATA	s"NAUSEA"
013547	152723			
013550	142701			
013551	000000		sDATA	s0
013552	000002		sDATA	s2
013553	153317		sDATA	s"VOMITING"
013554	146711			
013555	152311			
013556	147307			
013557	000000		sDATA	s0
013560	000003		sDATA	s3
013561	141722		sDATA	s"CRAMPS"
013562	140715			
013563	150323			
013564	000000		sDATA	s0
013565	000004		sDATA	s4
013566	150301		sDATA	s"PAIN"
013567	144716			
013570	000000		sDATA	s0
013571	000005		sDATA	s5
013572	142311		sDATA	s"DISTENTION"
013573	151724			
013574	142716			

013575	152311	
013576	147716	
013577	000000	,DATA ,0
013600	000006	,DATA ,6
013601	142311	,DATA ,,"DIARRHEA"
013602	140722	
013603	151310	
013604	142701	
013605	000000	,DATA ,0
013606	000013	,DATA ,11
013607	152720	,DATA ,,"UPPER QUADRANTS: PERISTALSIS"
013610	150305	
013611	151240	
013612	150725	
013613	140704	
013614	151301	
013615	147324	
013616	151672	
013617	120320	
013620	142722	
013621	144723	
013622	152301	
013623	146323	
013624	144723	
013625	000000	,DATA ,0
013626	000026	,DATA ,22
013627	152720	,DATA ,,"UPPER QUADRANTS: TENDERNESS"
013630	150305	
013631	151240	
013632	150725	
013633	140704	
013634	151301	
013635	147324	
013636	151672	
013637	120324	
013640	142716	
013641	142305	
013642	151316	
013643	142723	
013644	151640	
013645	000000	,DATA ,0
013646	000041	,DATA ,33
013647	152720	,DATA ,,"UPPER QUADRANTS: POINT TENDERNESS"
013650	150305	
013651	151240	
013652	150725	
013653	140704	
013654	151301	
013655	147324	
013656	151672	
013657	120320	
013660	147711	
013661	147324	
013662	120324	

013663 142716
013664 142305
013665 151316
013666 142723
013667 151640
013670 000000 •DATA •0
013671 000042 •DATA •34
013672 152720 •DATA •"UPPER QUADRANTS: MUSCLE RIGIDITY"
013673 150305
013674 151240
013675 150725
013676 140704
013677 151301
013700 147324
013701 151672
013702 120315
013703 152723
013704 141714
013705 142640
013706 151311
013707 143711
013710 142311
013711 152331
013712 000000 •DATA •0
013713 000157 •DATA •111
013714 146317 •DATA •"LOWER QUADRANTS: PERISTALSIS"
013715 153705
013716 151240
013717 150725
013720 140704
013721 151301
013722 147324
013723 151672
013724 120320
013725 142722
013726 144723
013727 152301
013730 146323
013731 144723
013732 000000 •DATA •0
013733 000172 •DATA •122
013734 146317 •DATA •"LOWER QUADRANTS: TENDERNESS"
013735 153705
013736 151240
013737 150725
013740 140704
013741 151301
013742 147324
013743 151672
013744 120324
013745 142716
013746 142305
013747 151316
013750 142723

013751 151640
013752 000000 •DATA •0
013753 000205 •DATA •133
013754 146317 •DATA •"LOWER QUADRANTS: POINT TENDERNESS"
013755 153705
013756 151240
013757 150725
013760 140704
013761 151301
013762 147324
013763 151672
013764 120320
013765 147711
013766 147324
013767 120324
013770 142716
013771 142305
013772 151316
013773 142723
013774 151640
013775 000000 •DATA •0
013776 000206 •DATA •134
013777 146317 •DATA •"LOWER QUADRANTS: MUSCLE RIGIDITY"
014000 153705
014001 151240
014002 150725
014003 140704
014004 151301
014005 147324
014006 151672
014007 120315
014010 152723
014011 141714
014012 142640
014013 151311
014014 143711
014015 142311
014016 152331
014017 000000 •DATA •0
014020 000311 •DATA •201
014021 146311 •DATA •"LIVER: DULLNESS"
014022 153305
014023 151272
014024 120304
014025 152714
014026 146316
014027 142723
014030 151640
014031 000000 •DATA •0
014032 000312 •DATA •202
014033 146311 •DATA •"LIVER: EDGE"
014034 153305
014035 151272
014036 120305

014037	142307	
014040	142640	
014041	000000	•DATA ,0
014042	000313	•DATA ,203
014043	146311	•DATA , "LIVER: TENDERNESS"
014044	153305	
014045	151272	
014046	120324	
014047	142716	
014050	142305	
014051	151316	
014052	142723	
014053	151640	
014054	000000	•DATA ,0
014055	000314	•DATA ,204
014056	146311	•DATA , "LIVER: ICTERUS"
014057	153305	
014060	151272	
014061	120311	
014062	141724	
014063	142722	
014064	152723	
014065	000000	•DATA ,0
014066	000455	•DATA ,301
014067	151720	•DATA , "SPLEEN: DULLNESS"
014070	146305	
014071	142716	
014072	135240	
014073	142325	
014074	146314	
014075	147305	
014076	151723	
014077	000000	•DATA ,0
014100	000456	•DATA ,302
014101	151720	•DATA , "SPLEEN: SIZE"
014102	146305	
014103	142716	
014104	135240	
014105	151711	
014106	155305	
014107	000000	•DATA ,0
014110	000457	•DATA ,303
014111	151720	•DATA , "SPLEEN: TENDERNESS"
014112	146305	
014113	142716	
014114	135240	
014115	152305	
014116	147304	
014117	142722	
014120	147305	
014121	151723	
014122	000000	•DATA ,0
014123	000633	•DATA ,411
014124	146701	•DATA , "MASS: SIZE"

014125	151723	
014126	135240	
014127	151711	
014130	155305	
014131	000000	,DATA ,0
014132	000646	,DATA ,422
014133	146701	,DATA , "MASS: MOBILITY"
014134	151723	
014135	135240	
014136	146717	
014137	141311	
014140	146311	
014141	152331	
014142	000000	,DATA ,0
014143	000661	,DATA ,433
014144	146701	,DATA , "MASS: PULSATION"
014145	151723	
014146	135240	
014147	150325	
014150	146323	
014151	140724	
014152	144717	
014153	147240	
014154	000000	,DATA ,0
014155	000674	,DATA ,444
014156	146701	,DATA , "MASS: TENDERNESS"
014157	151723	
014160	135240	
014161	152305	
014162	147304	
014163	142722	
014164	147305	
014165	151723	
014166	000000	,DATA ,0
014167	000777	,DATA ,511
014170	144305	,DATA , "HERNIA: TYPE"
014171	151316	
014172	144701	
014173	135240	
014174	152331	
014175	150305	
014176	000000	,DATA ,0
014177	001012	,DATA ,522
014200	144305	,DATA , "HERNIA: SIZE"
014201	151316	
014202	144701	
014203	135240	
014204	151711	
014205	155305	
014206	000000	,DATA ,0
014207	001013	,DATA ,523
014210	144305	,DATA , "HERNIA: REDUCIBILITY"
014211	151316	
014212	144701	

014213	135240	
014214	151305	
014215	142325	
014216	141711	
014217	141311	
014220	146311	
014221	152331	
014222	000000	•DATA •0
014223	001014	•DATA •524
014224	144305	•DATA •"HERNIA: PAIN"
014225	151316	
014226	144701	
014227	135240	
014230	150301	
014231	144716	
014232	000000	•DATA •0
014233	001015	•DATA •525
014234	144716	•DATA •"INCARCERATED BOWEL"
014235	141701	
014236	151303	
014237	142722	
014240	140724	
014241	142704	
014242	120302	
014243	147727	
014244	142714	
014245	000000	•DATA •0
014246	001143	•DATA •611
014247	146725	•DATA •"MUSCLE WEAKNESS"
014250	151703	
014251	146305	
014252	120327	
014253	142701	
014254	145716	
014255	142723	
014256	151640	
014257	000000	•DATA •0
014260	001156	•DATA •622
014261	151305	•DATA •"REFLEXES"
014262	143314	
014263	142730	
014264	142723	
014265	000000	•DATA •0
014266	001275	•DATA •701
014267	140717	•DATA •"AORTIC PULSE"
014270	151324	
014271	144703	
014272	120320	
014273	152714	
014274	151705	
014275	000000	•DATA •0
014276	001276	•DATA •702
014277	143305	•DATA •"FEMORAL PULSE"
014300	146717	

014301	151301	
014302	146240	
014303	150325	
014304	146323	
014305	142640	
014306	000000	•DATA •0
014307	001441	•DATA •801
014310	140716	•DATA •"ANUS: PRURITIS"
014311	152723	
014312	135240	
014313	150322	
014314	152722	
014315	144724	
014316	144723	
014317	000000	•DATA •0
014320	001442	•DATA •802
014321	140716	•DATA •"ANUS: TENDERNESS"
014322	152723	
014323	135240	
014324	152305	
014325	147304	
014326	142722	
014327	147305	
014330	151723	
014331	000000	•DATA •0
014332	001443	•DATA •803
014333	140716	•DATA •"ANUS: SWELLING"
014334	152723	
014335	135240	
014336	151727	
014337	142714	
014340	146311	
014341	147307	
014342	000000	•DATA •0
014343	001444	•DATA •804
014344	140716	•DATA •"ANUS: PAIN"
014345	152723	
014346	135240	
014347	150301	
014350	144716	
014351	000000	•DATA •0
014352	001445	•DATA •805
014353	140716	•DATA •"ANUS: INFLAMMATION-PERIRECTAL"
014354	152723	
014355	135240	
014356	144716	
014357	143314	
014360	140715	
014361	146701	
014362	152311	
014363	147716	
014364	126720	
014365	142722	
014366	144722	

014367	142703	
014370	152301	
014371	146240	
014372	000000	•DATA •0
014373	001446	•DATA •806
014374	142730	•DATA •"EXT. HEMORRHOID"
014375	152256	
014376	120310	
014377	142715	
014400	147722	
014401	151310	
014402	147711	
014403	142240	
014404	000000	•DATA •0
014405	001447	•DATA •807
014406	152310	•DATA •"THROMBOSED HEMORRHOID"
014407	151317	
014410	146702	
014411	147723	
014412	142704	
014413	120310	
014414	142715	
014415	147722	
014416	151310	
014417	147711	
014420	142240	
014421	000000	•DATA •0
014422	001450	•DATA •808
014423	141314	•DATA •"BLEEDING HEMORRHOID"
014424	142705	
014425	142311	
014426	147307	
014427	120310	
014430	142715	
014431	147722	
014432	151310	
014433	147711	
014434	142240	
014435	000000	•DATA •0
014436	001451	•DATA •809
014437	140716	•DATA •"ANAL FISTULA"
014440	140714	
014441	120306	
014442	144723	
014443	152325	
014444	146301	
014445	000000	•DATA •0
014446	001605	•DATA •901
014447	151305	•DATA •"RECTUM: SPHINCTER TONE"
014450	141724	
014451	152715	
014452	135240	
014453	151720	
014454	144311	

014455	147303	
014456	152305	
014457	151240	
014460	152317	
014461	147305	
014462	000000	*DATA ,0
014463	001620	*DATA ,912
014464	150322	*DATA ,*PROSTATE SIZE*
014465	147723	
014466	152301	
014467	152305	
014470	120323	
014471	144732	
014472	142640	
014473	000000	*DATA ,0
014474	001633	*DATA ,923
014475	150322	*DATA ,*PROSTATIC MASS*
014476	147723	
014477	152301	
014500	152311	
014501	141640	
014502	146701	
014503	151723	
014504	000000	*DATA ,0
014505	001634	*DATA ,924
014506	150322	*DATA ,*PROSTATE TENDERNESS*
014507	147723	
014510	152301	
014511	152305	
014512	120324	
014513	142716	
014514	142305	
014515	151316	
014516	142723	
014517	151640	
014520	000000	*DATA ,0
014521	001635	*DATA ,925
014522	151305	*DATA ,*RECTAL MASS*
014523	141724	
014524	140714	
014525	120315	
014526	140723	
014527	151640	
014530	000000	*DATA ,0
014531	001636	*DATA ,926
014532	151305	*DATA ,*RECTAL TENDERNESS*
014533	141724	
014534	140714	
014535	120324	
014536	142716	
014537	142305	
014540	151316	
014541	142723	
014542	151640	

014543	000000	DATA	0
014544	001637	DATA	927
014545	143305	DATA	"FECES COLOR"
014546	141705		
014547	151640		
014550	141717		
014551	146317		
014552	151240		
014553	000000	DATA	0
014554	001640	DATA	928
014555	151305	DATA	"RECTAL BLEEDING"
014556	141724		
014557	140714		
014560	120302		
014561	146305		
014562	142704		
014563	144716		
014564	143640		
014555	000000	DATA	0
* IMBLMS MEDICAL HISTORY			
* GENITOURINARY			
*			
*			
014566	000001	T8	DATA 1
014567	142331	DATA	"DYSURIA"
014570	151725		
014571	151311		
014572	140640		
014573	000000	DATA	0
014574	000002	DATA	2
014575	144305	DATA	"HEMATURIA"
014576	146701		
014577	152325		
014600	151311		
014601	140640		
014602	000000	DATA	0
014603	000157	DATA	111
014604	146331	DATA	"LYMPH NODES: ENLARGEMENT"
014605	146720		
014606	144240		
014607	147317		
014610	142305		
014611	151672		
014612	120305		
014613	147314		
014614	140722		
014615	143705		
014616	146705		
014617	147324		
014620	000000	DATA	0
014621	000172	DATA	122
014622	146331	DATA	"LYMPH NODES: TENDERNESS"
014623	146720		
014624	144240		

014626	147317
014626	142305
014627	151672
014630	120324
014631	142716
014632	142305
014633	151316
014634	142723
014635	151640
014636	000000
014637	000205
014640	146331
014641	146720
014642	144240
014643	147317
014644	142305
014645	151672
014646	120303
014647	144301
014650	151301
014651	141724
014652	142722
014653	000000
014654	000206
014655	146331
014656	146720
014657	144240
014660	147317
014661	142305
014662	151672
014663	120322
014664	142704
014665	147305
014666	151723
014667	127711
014670	147306
014671	146301
014672	146715
014673	140724
014674	144717
014675	147240
014676	000000
014677	000311
014700	150305
014701	147311
014702	151672
014703	120320
014704	144311
014705	146717
014706	151711
014707	151640
014710	000000
014711	000312
014712	150305

*DATA :0
*DATA :133
*DATA :*LYMPH NODES: CHARACTER*

*DATA :0
*DATA :134
*DATA :*LYMPH NODES: REDNESS/INFLAMMATION*

*DATA :0
*DATA :201
*DATA :*PENIS: PHIMOSIS*

*DATA :0
*DATA :202
*DATA :*PENIS: EDEMA*

014713	147311	
014714	151672	
014715	120305	
014716	142305	
014717	146701	
014720	000000	•DATA •0
014721	000313	•DATA •203
014722	150305	•DATA •"PENIS: LESION=GLANS"
014723	147311	
014724	151672	
014725	120314	
014726	142723	
014727	144717	
014730	147255	
014731	143714	
014732	140716	
014733	151640	
014734	000000	•DATA •0
014735	000314	•DATA •204
014736	150305	•DATA •"PENIS: LESION=MEATUS"
014737	147311	
014740	151672	
014741	120314	
014742	142723	
014743	144717	
014744	147255	
014745	146705	
014746	140724	
014747	152723	
014750	000000	•DATA •0
014751	000315	•DATA •205
014752	150305	•DATA •"PENIS: DISCHARGE"
014753	147311	
014754	151672	
014755	120304	
014756	144723	
014757	141710	
014760	140722	
014761	143705	
014762	000000	•DATA •0
014763	000316	•DATA •206
014764	150305	•DATA •"PENIS: PAIN"
014765	147311	
014766	151672	
014767	120320	
014770	140711	
014771	147240	
014772	000000	•DATA •0
014773	000467	•DATA •311
014774	152305	•DATA •"TESTIS: PAIN"
014775	151724	
014776	144723	
014777	135240	
015000	150301	

015001	144716		
015002	000000	DATA	0
015003	000502	DATA	322
015004	152305	DATA	"TESTIS: TENDERNESS"
015005	151724		
015006	144723		
015007	135240		
015010	152305		
015011	147304		
015012	142722		
015013	147305		
015014	151723		
015015	000000	DATA	0
015016	000515	DATA	333
015017	152305	DATA	"TESTIS: ATROPHY"
015020	151724		
015021	144723		
015022	135240		
015023	140724		
015024	151317		
015025	150310		
015026	154640		
015027	000000	DATA	0
015030	000516	DATA	334
015031	152305	DATA	"TESTIS: ENLARGEMENT"
015032	151724		
015033	144723		
015034	135240		
015035	142716		
015036	146301		
015037	151307		
015040	142715		
015041	142716		
015042	152240		
015043	000000	DATA	0
015044	000517	DATA	335
015045	152305	DATA	"TESTIS: HYDROCELE"
015046	151724		
015047	144723		
015050	135240		
015051	144331		
015052	142322		
015053	147703		
015054	142714		
015055	142640		
015056	000000	DATA	0
015057	000633	DATA	411
015060	142720	DATA	"EPIDIDYMIS: SWELLING"
015061	144704		
015062	144704		
015063	154715		
015064	144723		
015065	135240		
015066	151727		

015067	142714	
015070	146311	
015071	147307	
015072	000000	,DATA ,0
015073	000646	,DATA ,422
015074	142720	,DATA , "EPIDIDYMIS: TENDERNESS"
015075	144704	
015076	144704	
015077	154715	
015100	144723	
015101	135240	
015102	152305	
015103	147304	
015104	142722	
015105	147305	
015106	151723	
015107	000000	,DATA ,0
015110	000777	,DATA ,511
015111	151720	,DATA , "SPERMATIC CORD: VARICOCELE"
015112	142722	
015113	146701	
015114	152311	
015115	141640	
015116	141717	
015117	151304	
015120	135240	
015121	153301	
015122	151311	
015123	141717	
015124	141705	
015125	146305	
015126	000000	,DATA ,0
015127	001012	,DATA ,522
015130	151720	,DATA , "SPERMATIC CORD: TENDERNESS"
015131	142722	
015132	146701	
015133	152311	
015134	141640	
015135	141717	
015136	151304	
015137	135240	
015140	152305	
015141	147304	
015142	142722	
015143	147305	
015144	151723	
015145	000000	,DATA ,0
015146	001143	,DATA ,611
015147	145711	,DATA , "KIDNEYS: PAIN"
015150	142316	
015151	142731	
015152	151672	
015153	120320	
015154	140711	

015155	147240	
015156	000000	•DATA •0
015157	001156	•DATA •622
015160	145711	•DATA •"KIDNEYS: TENDERNESS"
015161	142316	
015162	142731	
015163	151672	
015164	120324	
015165	142716	
015166	142305	
015167	151316	
015170	142723	
015171	151640	
015172	000000	•DATA •0
015173	001275	•DATA •701
015174	141314	•DATA •"BLADDER: MICTURITION"
015175	140704	
015176	142305	
015177	151272	
015200	120315	
015201	144703	
015202	152325	
015203	151311	
015204	152311	
015205	147716	
015206	000000	•DATA •0
015207	001276	•DATA •702
015210	141314	•DATA •"BLADDER: DULL PAIN"
015211	140704	
015212	142305	
015213	151272	
015214	120304	
015215	152714	
015216	146240	
015217	150301	
015220	144716	
015221	000000	•DATA •0
015222	001277	•DATA •703
015223	141314	•DATA •"BLADDER: SHARP LOCALIZED PAIN"
015224	140704	
015225	142305	
015226	151272	
015227	120323	
015230	144301	
015231	151320	
015232	120314	
015233	147703	
015234	140714	
015235	144732	
015236	142704	
015237	120320	
015240	140711	
015241	147240	
015242	000000	•DATA •0

015243	001300	»DATA	»704
015244	141314	»DATA	»"BLADDER: TENDERNESS"
015245	140704		
015246	142305		
015247	151272		
015250	120324		
015251	142716		
015252	142305		
015253	151316		
015254	142723		
015255	151640		
015256	000000	»DATA	»0
015257	001301	»DATA	»705
015260	141314	»DATA	»"BLADDER: BURNING ON MICTURITION"
015261	140704		
015262	142305		
015263	151272		
015264	120302		
015265	152722		
015266	147311		
015267	147307		
015270	120317		
015271	147240		
015272	146711		
015273	141724		
015274	152722		
015275	144724		
015276	144717		
015277	147240		
015300	000000	»DATA	»0
* IMBLMS MEDICAL HISTORY			
* UPPER EXTREMITIES			
*			

015301	000157	T9	»DATA	»111
015302	144301		»DATA	»"HANDS: SKIN TEMPERATURE"
015303	147304			
015304	135240			
015305	151713			
015306	144716			
015307	120324			
015310	142715			
015311	150305			
015312	151301			
015313	152325			
015314	151305			
015315	000000		»DATA	»0
015316	000172		»DATA	»122
015317	144301		»DATA	»"HANDS: EDEMA"
015320	147304			
015321	135240			
015322	142704			
015323	142715			
015324	140640			

015325	000000	*DATA	*0
015326	000205	*DATA	*133
015327	144301	*DATA	*"HAND: TENDERNESS"
015330	147304		
015331	135240		
015332	152305		
015333	147304		
015334	142722		
015335	147305		
015336	151723		
015337	000000	*DATA	*0
015340	000220	*DATA	*144
015341	144301	*DATA	*"HAND: PAIN"
015342	147304		
015343	135240		
015344	150301		
015345	144716		
015346	000000	*DATA	*0
015347	000233	*DATA	*155
015350	144301	*DATA	*"HAND: LOCALIZED SWELLING"
015351	147304		
015352	135240		
015353	146317		
015354	141701		
015355	146311		
015356	155305		
015357	142240		
015360	151727		
015361	142714		
015362	146311		
015363	147307		
015364	000000	*DATA	*0
015365	000246	*DATA	*166
015366	144301	*DATA	*"HAND: LOCALIZED INFLAMMATION"
015367	147304		
015370	135240		
015371	146317		
015372	141701		
015373	146311		
015374	155305		
015375	142240		
015376	144716		
015377	143314		
015400	140715		
015401	146701		
015402	152311		
015403	147716		
015404	000000	*DATA	*0
015405	000247	*DATA	*167
015406	144301	*DATA	*"HAND: GRIP"
015407	147304		
015410	135240		
015411	143722		
015412	144720		

015413	000000	*DATA	*0
015414	000250	*DATA	*168
015415	144301	*DATA	*'HANDS METACARPAL FRACTURE'
015416	147304		
015417	135240		
015420	146705		
015421	152301		
015422	141701		
015423	151320		
015424	140714		
015425	120306		
015426	151301		
015427	141724		
015430	152722		
015431	142640		
015432	000000	*DATA	*0
015433	000251	*DATA	*169
015434	144301	*DATA	*'HANDS LACERATION'
015435	147304		
015436	135240		
015437	146301		
015440	141705		
015441	151301		
015442	152311		
015443	147716		
015444	000000	*DATA	*0
015445	000323	*DATA	*211
015446	142311	*DATA	*'DIGITS: NAIL COLOR'
015447	143711		
015450	152323		
015451	135240		
015452	147301		
015453	144714		
015454	120303		
015455	147714		
015456	147722		
015457	000000	*DATA	*0
015460	000350	*DATA	*232
015461	142311	*DATA	*'DIGITS: SUBUNGUAL INFECTION'
015462	143711		
015463	152323		
015464	135240		
015465	151725		
015466	141325		
015467	147307		
015470	152701		
015471	146240		
015472	144716		
015473	143305		
015474	141724		
015475	144717		
015476	147240		
015477	000000	*DATA	*0
015500	000363	*DATA	*243

015501 142311 »DATA «^{DIGITS} FOREIGN BODY»
015502 143711
015503 152323
015504 135240
015505 143317
015506 151305
015507 144707
015510 147240
015511 141317
015512 142331
015513 000000 »DATA «0
015514 000376 »DATA «254
015515 142311 »DATA «^{DIGITS} PARONYCHIA»
015516 143711
015517 152323
015520 135240
015521 150301
015522 151317
015523 147331
015524 141710
015525 144701
015526 000000 »DATA «0
015527 000423 »DATA «275
015530 142311 »DATA «^{DIGITS} PAIN»
015531 143711
015532 152323
015533 135240
015534 150301
015535 144716
015536 000000 »DATA «0
015537 000436 »DATA «286
015540 142311 »DATA «^{DIGITS} SWELLING»
015541 143711
015542 152323
015543 135240
015544 151727
015545 142714
015546 146311
015547 147307
015550 000000 »DATA «0
015551 000451 »DATA «297
015552 142311 »DATA «^{DIGITS} INFLAMMATION»
015553 143711
015554 152323
015555 135240
015556 144716
015557 143314
015560 140715
015561 146701
015562 152311
015563 147716
015564 000000 »DATA «0
015565 000464 »DATA «308
015566 142311 »DATA «^{DIGITS} WEAKNESS»

015567	143711	
015570	152323	
015571	135240	
015572	153705	
015573	140713	
015574	147305	
015575	151723	
015576	000000	,DATA ,0
015577	000465	,DATA ,309
015600	142311	,DATA ,,"DIGITS: FRACTURE"
015601	143711	
015602	152323	
015603	135240	
015604	143322	
015605	140703	
015606	152325	
015607	151305	
015610	000000	,DATA ,0
015611	000454	,DATA ,300
015612	142311	,DATA ,,"DIGITS: LACERATION"
015613	143711	
015614	152323	
015615	135240	
015616	146301	
015617	141705	
015620	151301	
015621	152311	
015622	147716	
015623	000000	,DATA ,0
015624	000633	,DATA ,411
015625	153722	,DATA ,,"WRIST: RANGE OF MOTION"
015626	144723	
015627	152272	
015630	120322	
015631	140716	
015632	143705	
015633	120317	
015634	143240	
015635	146717	
015636	152311	
015637	147716	
015640	000000	,DATA ,0
015641	000660	,DATA ,432
015642	153722	,DATA ,,"WRIST: WEAKNESS"
015643	144723	
015644	152272	
015645	120327	
015646	142701	
015647	145716	
015650	142723	
015651	151640	
015652	000000	,DATA ,0
015653	000661	,DATA ,433
015654	153722	,DATA ,,"WRIST: JOINT PAIN"

015655	144723	
015656	152272	
015657	120312	
015660	147711	
015661	147324	
015662	120320	
015663	140711	
015664	147240	
015665	000000	,DATA ,0
015666	000652	,DATA ,434
015667	153722	,DATA , "WRIST: FRACTURE"
015670	144723	
015671	152272	
015672	120306	
015673	151301	
015674	141724	
015675	152722	
015676	142640	
015677	000000	,DATA ,0
015700	000663	,DATA ,435
015701	153722	,DATA , "WRIST: LACERATION"
015702	144723	
015703	152272	
015704	120314	
015705	140703	
015706	142722	
015707	140724	
015710	144717	
015711	147240	
015712	000000	,DATA ,0
015713	000777	,DATA ,511
015714	143317	,DATA , "FOREARM: FLEXORS WEAKNESS"
015715	151305	
015716	140722	
015717	146672	
015720	120306	
015721	146305	
015722	154317	
015723	151323	
015724	120327	
015725	142701	
015726	145716	
015727	142723	
015730	151640	
015731	000000	,DATA ,0
015732	001012	,DATA ,522
015733	143317	,DATA , "FOREARM: EXTENSORS WEAKNESS"
015734	151305	
015735	140722	
015736	146672	
015737	120305	
015740	154324	
015741	142716	
015742	151717	

015743 151323
015744 120327
015745 142701
015746 145716
015747 142723
015750 151640
015751 000000 sDATA s0
015752 001025 sDATA s533
015753 143317 sDATA s"FOREARMS PRONATORS WEAKNESS"
015754 151305
015755 140722
015756 146672
015757 120320
015760 151317
015761 147301
015762 152317
015763 151323
015764 120327
015765 142701
015766 145716
015767 142723
015770 151640
015771 000000 sDATA s0
015772 001026 sDATA s534
015773 143317 sDATA s"FOREARM: SUPINATORS WEAKNESS"
015774 151305
015775 140722
015776 146672
015777 120323
016000 152720
016001 144716
016002 140724
016003 147722
016004 151640
016005 153705
016006 140713
016007 147305
016010 151723
016011 000000 sDATA s0
016012 001027 sDATA s535
016013 143317 sDATA s"FOREARMS PAIN"
016014 151305
016015 140722
016016 146672
016017 120320
016020 140711
016021 147240
016022 000000 sDATA s0
016023 001030 sDATA s536
016024 143317 sDATA s"FOREARM: TENDERNESS"
016025 151305
016026 140722
016027 146672
016030 120324

016031	142716	
016032	142305	
016033	151316	
016034	142723	
016035	151640	
016036	000000	,DATA ,0
016037	001031	,DATA ,537
016040	143317	,DATA , "FOREARM: SWELLING"
016041	151305	
016042	140722	
016043	146672	
016044	120323	
016045	153705	
016046	146314	
016047	144716	
016050	143540	
016051	000000	,DATA ,0
016052	001032	,DATA ,538
016053	143317	,DATA , "FOREARM: CARPOPEDAL SPASM"
016054	151305	
016055	140722	
016056	146672	
016057	120303	
016060	140722	
016061	150317	
016062	150305	
016063	142301	
016064	146240	
016065	151720	
016066	140723	
016067	146640	
016070	000000	,DATA ,0
016071	001033	,DATA ,539
016072	143317	,DATA , "FOREARM: FRACTURE"
016073	151305	
016074	140722	
016075	146672	
016076	120306	
016077	151301	
016100	141724	
016101	152722	
016102	142640	
016103	000000	,DATA ,0
016104	001022	,DATA ,530
016105	143317	,DATA , "FOREARM: LACERATION"
016106	151305	
016107	140722	
016110	146672	
016111	120314	
016112	140703	
016113	142722	
016114	140724	
016115	144717	
016116	147240	

016117	000000	,DATA	,0
016120	001143	,DATA	,611
016121	142714	,DATA	, "ELBOW: MOTION"
016122	141317		
016123	153672		
016124	120315		
016125	147724		
016126	144717		
016127	147240		
016130	000000	,DATA	,0
016131	001156	,DATA	,622
016132	142714	,DATA	, "ELBOW: TENDERNESS RADIAL HEAD"
016133	141317		
016134	153672		
016135	120324		
016136	142716		
016137	142305		
016140	151316		
016141	142723		
016142	151640		
016143	151301		
016144	142311		
016145	140714		
016146	120310		
016147	142701		
016150	142240		
016151	000000	,DATA	,0
016152	001171	,DATA	,633
016153	142714	,DATA	, "ELBOW: SWELLING"
016154	141317		
016155	153672		
016156	120323		
016157	153705		
016160	146314		
016161	144716		
016162	143640		
016163	000000	,DATA	,0
016164	001172	,DATA	,634
016165	142714	,DATA	, "ELBOW: PAIN"
016166	141317		
016167	153672		
016170	120320		
016171	140711		
016172	147240		
016173	000000	,DATA	,0
016174	001173	,DATA	,635
016175	142714	,DATA	, "ELBOW: BURSITIS"
016176	141317		
016177	153672		
016200	120302		
016201	152722		
016202	151711		
016203	152311		
016204	151640		

016205	000000	*DATA	*0
016206	001174	*DATA	*636
016207	142714	*DATA	*"ELBOW: FRACTURE"
016210	141317		
016211	153672		
016212	120306		
016213	151301		
016214	141724		
016215	152722		
016216	142640		
016217	000000	*DATA	*0
016220	001175	*DATA	*637
016221	142714	*DATA	*"ELBOW: LACERATION"
016222	141317		
016223	153672		
016224	120314		
016225	140703		
016226	142722		
016227	140724		
016230	144717		
016231	147240		
016232	000000	*DATA	*0
016233	001307	*DATA	*711
016234	152720	*DATA	*"UPPER ARM: WEAKNESS OF FLEXORS"
016235	150305		
016236	151240		
016237	140722		
016240	146672		
016241	120327		
016242	142701		
016243	145716		
016244	142723		
016245	151640		
016246	147706		
016247	120306		
016250	146305		
016251	154317		
016252	151323		
016253	000000	*DATA	*0
016254	001322	*DATA	*722
016255	152720	*DATA	*"UPPER ARM: WEAKNESS OF EXTENSORS"
016256	150305		
016257	151240		
016260	140722		
016261	146672		
016262	120327		
016263	142701		
016264	145716		
016265	142723		
016266	151640		
016267	147706		
016270	120305		
016271	154324		
016272	142716		

016273	151717	
016274	151323	
016275	000000	*DATA ,0
016276	001335	*DATA ,733
016277	152720	*DATA *UPPER ARM: FRACTURE*
016300	150305	
016301	151240	
016302	140722	
016303	146672	
016304	120306	
016305	151301	
016306	141724	
016307	152722	
016310	142640	
016311	000000	*DATA ,0
016312	001336	*DATA ,734
016313	152720	*DATA *UPPER ARM: LACERATION*
016314	150305	
016315	151240	
016316	140722	
016317	146672	
016320	120314	
016321	140703	
016322	142722	
016323	140724	
016324	144717	
016325	147240	
016326	000000	*DATA ,0
016327	001453	*DATA ,811
016330	151710	*DATA *SHOULDER: RANGE OF ABDUCTION*
016331	147714	
016332	142305	
016333	151272	
016334	120322	
016335	140716	
016336	143705	
016337	120317	
016340	143240	
016341	140702	
016342	142325	
016343	141724	
016344	144717	
016345	147240	
016346	000000	*DATA ,0
016347	001466	*DATA ,822
016350	151710	*DATA *SHOULDER: RANGE OF ROTATION*
016351	147725	
016352	146304	
016353	142722	
016354	135240	
016355	151301	
016356	147307	
016357	142640	
016360	147706	

016361	120322	
016362	147724	
016363	140724	
016364	144717	
016365	147240	
016366	000000	,DATA ,0
016367	001501	,DATA ,833
016370	151710	,DATA , "SHOULDER: DELTOID WEAKNESS"
016371	147725	
016372	146304	
016373	142722	
016374	135240	
016375	142305	
016376	146324	
016377	147711	
016400	142240	
016401	153705	
016402	140713	
016403	147305	
016404	151723	
016405	000000	,DATA ,0
016406	001502	,DATA ,834
016407	151710	,DATA , "SHOULDER: ADDUCTORS WEAKNESS"
016410	147725	
016411	146304	
016412	142722	
016413	135240	
016414	140704	
016415	142325	
016416	141724	
016417	147722	
016420	151640	
016421	153705	
016422	140713	
016423	147305	
016424	151723	
016425	000000	,DATA ,0
016426	001503	,DATA ,835
016427	151710	,DATA , "SHOULDER: ABDUCTORS WEAKNESS"
016430	147725	
016431	146304	
016432	142722	
016433	135240	
016434	140702	
016435	142325	
016436	141724	
016437	147722	
016440	151640	
016441	153705	
016442	140713	
016443	147305	
016444	151723	
016445	000000	,DATA ,0
016446	001504	,DATA ,836

016447	151710	,DATA	, "SHOULDER: BURSITIS"
016450	147725		
016451	146304		
016452	142722		
016453	135240		
016454	141325		
016455	151323		
016456	144724		
016457	144723		
016460	000000	,DATA	, 0
016461	001505	,DATA	, 837
016462	151710	,DATA	, "SHOULDER: CLAVICLE FRACTURE"
016463	147725		
016464	146304		
016465	142722		
016466	135240		
016467	141714		
016470	140726		
016471	144703		
016472	146305		
016473	120306		
016474	151301		
016475	141724		
016476	152722		
016477	142640		
016500	000000	,DATA	, 0
016501	001506	,DATA	, 838
016502	151710	,DATA	, "SHOULDER: LACERATION"
016503	147725		
016504	146304		
016505	142722		
016506	135240		
016507	146301		
016510	141705		
016511	151301		
016512	152311		
016513	147716		
016514	000000	,DATA	, 0
016515	001507	,DATA	, 839
016516	151710	,DATA	, "SHOULDER: DISLOCATION"
016517	147725		
016520	146304		
016521	142722		
016522	135240		
016523	142311		
016524	151714		
016525	147703		
016526	140724		
016527	144717		
016530	147240		
016531	000000	,DATA	, 0
016532	001617	,DATA	, 911
016533	140730	,DATA	, "AXILLA: LYMPH NODE SWELLING"
016534	144714		

016535	146301		
016536	135240		
016537	146331		
016540	146720		
016541	144240		
016542	147317		
016543	142305		
016544	120323		
016545	153705		
016546	146314		
016547	144716		
016550	143640		
016551	000000	»DATA	,0
016552	001632	»DATA	,922
016553	140730	»DATA	, "AXILLA: LYMPHANGITIS"
016554	144714		
016555	146301		
016556	135240		
016557	146331		
016560	146720		
016561	140716		
016562	143711		
016563	152311		
016564	151640		
016565	000000	»DATA	,0
016566	001645	»DATA	,933
016567	140730	»DATA	, "AXILLA: FOLLICULITIS"
016570	144714		
016571	146301		
016572	135240		
016573	143317		
016574	146314		
016575	144703		
016576	152714		
016577	144724		
016600	144723		
016601	000000	»DATA	,0

* IMBLMS MEDICAL HISTORY

* LOWER EXTREMITIES

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016602	000157	T10	»DATA	,111
016603	143317		»DATA	, "FOOT: EDEMA"
016604	147724			
016605	135240			
016606	142704			
016607	142715			
016610	140640			
016611	000000		»DATA	,0
016612	000172		»DATA	,122
016613	143317		»DATA	, "FOOT: SKIN TEMP."
016614	147724			
016615	135240			

016616	151713	
016617	144716	
016620	120324	
016621	142715	
016622	150256	
016623	000000	•DATA •0
016624	000205	•DATA •133
016625	143317	•DATA •"FOOT: TENDERNESS"
016626	147724	
016627	135240	
016630	152305	
016631	147304	
016632	142722	
016633	147305	
016634	151723	
016635	000000	•DATA •0
016636	000220	•DATA •144
016637	142317	•DATA •"DORSALIS PEDIS PULSE"
016640	151323	
016641	140714	
016642	144723	
016643	120320	
016644	142704	
016645	144723	
016646	120320	
016647	152714	
016650	151705	
016651	000000	•DATA •0
016652	000257	•DATA •175
016653	143317	•DATA •"FOOT: PAIN"
016654	147724	
016655	135240	
016656	150301	
016657	144716	
016660	000000	•DATA •0
016661	000272	•DATA •186
016662	143317	•DATA •"FOOT: LOCALIZED SWELLING"
016663	147724	
016664	135240	
016665	146317	
016666	141701	
016667	146311	
016670	155305	
016671	142240	
016672	151727	
016673	142714	
016674	146311	
016675	147307	
016676	000000	•DATA •0
016677	000273	•DATA •187
016700	143317	•DATA •"FOOT: LOCALIZED INFLAMMATION"
016701	147724	
016702	135240	
016703	146317	

016704	141701	
016705	146311	
016706	155305	
016707	142240	
016710	144716	
016711	143314	
016712	140715	
016713	146701	
016714	152311	
016715	147716	
016716	000000	,DATA ,0
016717	000274	,DATA ,188
016720	143317	,DATA , "FOOT: NAIL COLOR"
016721	147724	
016722	135240	
016723	147301	
016724	144714	
016725	120303	
016726	147714	
016727	147722	
016730	000000	,DATA ,0
016731	000275	,DATA ,189
016732	152311	,DATA , "TINEA PEDIS"
016733	147305	
016734	140640	
016735	150305	
016736	142311	
016737	151640	
016740	000000	,DATA ,0
016741	000264	,DATA ,180
016742	143317	,DATA , "FOOT: FRACTURE"
016743	147724	
016744	135240	
016745	143322	
016746	140703	
016747	152325	
016750	151305	
016751	000000	,DATA ,0
016752	000323	,DATA ,211
016753	146317	,DATA , "LOWER LEG: FLEXORS WEAKNESS"
016754	153705	
016755	151240	
016756	146305	
016757	143672	
016760	120306	
016761	146305	
016762	154317	
016763	151323	
016764	120327	
016765	142701	
016766	145716	
016767	142723	
016770	151640	
016771	000000	,DATA ,0

016772	000336	DATA	222
016773	146317	DATA	*LOWER LEG: EXTENSORS WEAKNESS*
016774	153705		
016775	151240		
016776	146305		
016777	143672		
017000	120305		
017001	154324		
017002	142716		
017003	151717		
017004	151323		
017005	120327		
017006	142701		
017007	145716		
017010	142723		
017011	151640		
017012	000000	DATA	0
017013	000351	DATA	233
017014	146317	DATA	*LOWER LEG: SWELLING*
017015	153705		
017016	151240		
017017	146305		
017020	143672		
017021	120323		
017022	153705		
017023	146314		
017024	144716		
017025	143640		
017026	000000	DATA	0
017027	000352	DATA	234
017030	146317	DATA	*LOWER LEG: TENDERNESS*
017031	153705		
017032	151240		
017033	146305		
017034	143672		
017035	120324		
017036	142716		
017037	142305		
017040	151316		
017041	142723		
017042	151640		
017043	000000	DATA	0
017044	000353	DATA	235
017045	146317	DATA	*LOWER LEG: PAIN*
017046	153705		
017047	151240		
017050	146305		
017051	143672		
017052	120320		
017053	140711		
017054	147240		
017055	000000	DATA	0
017056	000354	DATA	236
017057	146317	DATA	*LOWER LEG: VARICES*

017060	153705	
017061	151240	
017062	146305	
017063	143672	
017064	120326	
017065	140722	
017066	144703	
017067	142723	
017070	000000	sDATA s0
017071	000355	sDATA s237
017072	146317	sDATA s'LOWER LEG: PHLEBITIS'
017073	153705	
017074	151240	
017075	146305	
017076	143672	
017077	120320	
017100	144314	
017101	142702	
017102	144724	
017103	144723	
017104	000000	sDATA s0
017105	000356	sDATA s238
017106	146317	sDATA s'LOWER LEG: FRACTURE'
017107	153705	
017110	151240	
017111	146305	
017112	143672	
017113	120306	
017114	151301	
017115	141724	
017116	152722	
017117	142640	
017120	000000	sDATA s0
017121	000357	sDATA s239
017122	146317	sDATA s'LOWER LEG: LACERATION'
017123	153705	
017124	151240	
017125	146305	
017126	143672	
017127	120314	
017130	140703	
017131	142722	
017132	140724	
017133	144717	
017134	147240	
017135	000000	sDATA s0
017136	000467	sDATA s311
017137	145716	sDATA s'KNEE: RANGE OF MOTION'
017140	142705	
017141	135240	
017142	151301	
017143	147307	
017144	142540	
017145	147706	

017146	120315	
017147	147724	
017150	144717	
017151	147240	
017152	000000	*DATA *0
017153	000502	*DATA *322
017154	145716	*DATA * ^a KNEE: PAIN ^b
017155	142705	
017156	135240	
017157	150301	
017160	144716	
017161	000000	*DATA *0
017162	000515	*DATA *333
017163	145716	*DATA * ^a KNEE: FLUID ^b
017164	142705	
017165	135240	
017166	143314	
017167	152711	
017170	142240	
017171	000000	*DATA *0
017172	000516	*DATA *334
017173	150317	*DATA * ^a POPLITEAL ARTERY PULSATI ^b
017174	150314	
017175	144724	
017176	142701	
017177	146240	
017200	140722	
017201	152305	
017202	151331	
017203	120320	
017204	152714	
017205	151701	
017206	152311	
017207	147716	
017210	000000	*DATA *0
017211	000517	*DATA *335
017212	150301	*DATA * ^a PATELLAR FRACTURE ^b
017213	152305	
017214	146314	
017215	140722	
017216	120306	
017217	151301	
017220	141724	
017221	152722	
017222	142640	
017223	000000	*DATA *0
017224	000632	*DATA *411
017225	150725	*DATA * ^a QUADRICEPS WEAKNESS ^b
017226	140704	
017227	151311	
017230	141705	
017231	150323	
017232	120327	
017233	142701	

017234	145716	
017235	142723	
017236	151640	
017237	000000	sDATA ,0
017240	000646	sDATA ,422
017241	144301	sDATA , ["] HAMSTRINGS WEAKNESS ["]
017242	145723	
017243	152322	
017244	144716	
017245	143723	
017246	120327	
017247	142701	
017250	145716	
017251	142723	
017252	151640	
017253	000000	sDATA ,0
017254	000661	sDATA ,433
017255	151703	sDATA , ["] SCIATIC N. TENDERNESS ["]
017256	144701	
017257	152311	
017260	141640	
017261	147256	
017262	120324	
017263	142716	
017264	142305	
017265	151316	
017266	142723	
017267	151640	
017270	000000	sDATA ,0
017271	000662	sDATA ,434
017272	152310	sDATA , ["] THIGH: FRACTURE ["]
017273	144707	
017274	144272	
017275	120306	
017276	151301	
017277	141724	
017300	152722	
017301	142640	
017302	000000	sDATA ,0
017303	000663	sDATA ,435
017304	152310	sDATA , ["] THIGH: LACERATION ["]
017305	144707	
017306	144272	
017307	120314	
017310	140703	
017311	142722	
017312	140724	
017313	144717	
017314	147240	
017315	000000	sDATA ,0
017316	000777	sDATA ,511
017317	144311	sDATA , ["] HIP-BUTTOCKS: ADDUCTORS WEAKNESS ["]
017320	150255	
017321	141325	

017322	152324	
017323	147703	
017324	145723	
017325	136240	
017326	140704	
017327	142325	
017330	141724	
017331	147722	
017332	151640	
017333	153705	
017334	140713	
017335	147305	
017336	151723	
017337	000000	,DATA ,0
017340	001012	,DATA ,522
017341	144311	,DATA ,HIP-BUTTOCKS: ABDUCTORS WEAKNESS*
017342	150255	
017343	141325	
017344	152324	
017345	147703	
017346	145723	
017347	135240	
017350	140702	
017351	142325	
017352	141724	
017353	147722	
017354	151640	
017355	153705	
017356	140713	
017357	147305	
017360	151723	
017361	000000	,DATA ,0
017362	001025	,DATA ,533
017363	144311	,DATA ,HIP-BUTTOCKS: RANGE OF FLEXION*
017364	150255	
017365	141325	
017366	152324	
017367	147703	
017370	145723	
017371	135240	
017372	151301	
017373	147307	
017374	142640	
017375	147706	
017376	120306	
017377	146305	
017400	154311	
017401	147716	
017402	000000	,DATA ,0
017403	001646	,DATA ,934
017404	144311	,DATA ,HIP-BUTTOCKS: RANGE OF ROTATION*
017405	150255	
017406	141325	
017407	152324	

017410	147703		
017411	145723		
017412	135240		
017413	151301		
017414	147307		
017415	142640		
017416	147706		
017417	120322		
017420	147724		
017421	140724		
017422	144717		
017423	147240		
017424	000000	sDATA	s0
017425	001027	sDATA	s535
017426	150301	sDATA	s"PAIN IN HIP"
017427	144716		
017430	120311		
017431	147240		
017432	144311		
017433	150240		
017434	000000	sDATA	s0
017435	001030	sDATA	s536
017436	144311	sDATA	s"HIP: DISLOCATION"
017437	150272		
017440	120304		
017441	144723		
017442	146317		
017443	141701		
017444	152311		
017445	147716		
017446	000000	sDATA	s0
	000000	sEND	s

LITERALS

POINTERS
0C0700 110255

SYMBOLS

1	C16602	R	T10
1	C15301	R	T9
1	C14566	R	T8
1	C13545	R	T7
1	C13145	R	T6
1	C12702	R	T5
1	C12152	R	T4
1	C11207	R	T3
1	C10727	R	T2
1	C10507	R	T1
1	C10451	R	CTBL
1	C10450	R	CAD
1	C10435	R	LOEX

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